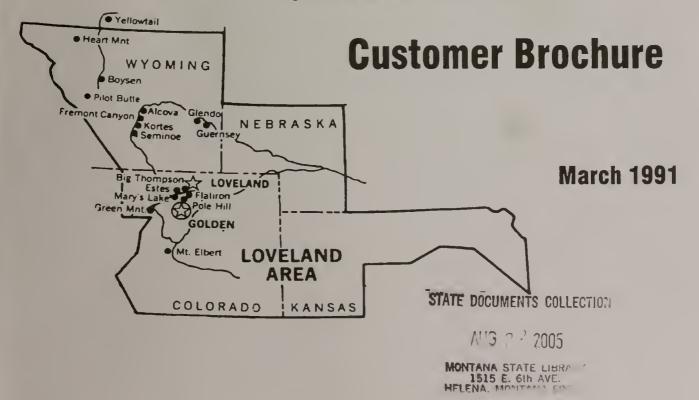


BASIN PROGRAM

Proposed Power Rate Adjustment





WESTERN AREA POWER ADMINISTRATION

PICK-SLOAN MISSOURI BASIN PROGRAM

POWER RATE ADJUSTMENT

CUSTOMER BROCHURE

MARCH 1991

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I. INTRODUCTION

The Western Area Power Administration (Western) is providing information on the proposed power rate adjustment of the Pick-Sloan Missouri Basin Program (P-SMBP) in this brochure. Public information and public comment forums will be held during the consultation and comment period, discussed in Section II, to provide additional information and to receive comments from interested persons. After the consultation and comment period and review of oral and written comments, the Administrator of Western will develop a power rate, which will be submitted to the Deputy Secretary of the Department of Energy (DOE) to confirm, approve, and place into effect on an interim basis and to submit to the Federal Energy Regulatory Commission (FERC) to confirm, approve and place in effect on a final basis. The decision will be announced to the public along with an explanation of the principal factors leading to the decision.

The fiscal year (FY) 1990 Power Repayment Study (PRS) has been completed and shows that existing power rates are not adequate to meet repayment requirements. To meet those requirements the composite rate for firm power is proposed to be increased by 1.39 mills/kwh beginning in October 1991. This increase is referred to as Step One. In addition, a study referred to as the FY 1991 PRS, which incorporates this 1.39 mills/kwh increase in FY 1992 as well as certain assumed values, has also been completed. That study indicates a need for an additional increase in the composite rate of 0.91 mills/kWh beginning in October 1992 (Step Two). The FY 1991 PRS incorporates the results of the FY 1990 PRS and would be used as the basis for a two step rate



increase. Each of the studies will be discussed later in this brochure.

The three major factors contributing to the need for the rate adjustment are as follows:

- 1. Increases in operation and maintenance (O&M) expenses.
- Addition of purchased power projections, reduced surplus sales and a longer recovery period from the drought.
- 3. Rapidly increasing deficits.

Detailed discussions regarding these three major factors are contained in the Study Analysis section of this brochure.

The impact of increasing the wholesale firm power rate will vary for each customer depending on individual customer load characteristics. Furthermore, the overall effect on the retail customer is proportional to the amount of power furnished by Western relative to their supplemental supply.

II. RATE ADJUSTMENT PROCEDURES

The formal consultation and comment period will begin with the publication of a notice in the FEDERAL REGISTER and will end 90 days thereafter. Public information forums, during which Western will explain the need for the increase and answer questions, will be held at the following places and times:

March 25, 1991 - 9:00 AM Sheraton Hotel, Billings, Montana March 25, 1991 - 2:00 PM Holiday Inn, Northglenn, Colorado March 26, 1991 - 8:00 AM Holiday Inn Airport, Sioux Falls, South Dakota March 26, 1991 - 1:30 PM Holiday Inn, Fargo, North Dakota

Public comment forums, during which comments for the record concerning the proposed rate increase will be accepted, will be conducted at the following



places and times:

April 16, 1991 - 9:00 AM Holiday Inn, Northglenn, Colorado April 17, 1991 - 2:00 PM Ramkota Inn, Sioux Falls, South Dakota

Individuals planning to speak at either the March or April forums should send their request with their name and organization affiliation to the address below one week before each meeting so that a speaker list can be prepared.

Requests should be mailed to:

Mr. James D. Davies Area Manager Billings Area Office Western Area Power Administration P.O. Box 35800 Billings, MT 59107-5800 Telephone: (406) 657-6532

Supplementary Information

Power rates for the P-SMBP are established pursuant to the Department of Energy Organization Act, 42 U.S.C. 7101, et seq.; the Reclamation Act, 43 U.S.C. 372, et seq., as amended and supplemented by subsequent enactments, particularly section 9(c) of the Reclamation Project Act of 1939, 43 U.S.C. 485h,(c); section 9 of the Flood Control Act of 1944, 58 Stat. 887; and other acts specifically applicable to the project system involved.

By Delegation Order No. 0204-108, effective December 14, 1983 (48 FR 55664), as amended May 30, 1986 (51 FR 19744), reassigned by DOE Notice 1110.29 dated October 27, 1988, and clarified by Secretary of Energy Notice SEN-10-89 dated August 3, 1989, and subsequent revisions, the Secretary of Energy delegated:

(1) to the Administrator of Western the authority, on a non-exclusive basis, to develop long-term power and transmission rates; (2) to the Deputy Secretary of DOE the authority to confirm, approve, and place such rates in effect on an



interim basis; (3) and to the FERC the authority to confirm, approve, and place in effect on a final basis, or remand, or disapprove such rates.

Existing DOE procedures for public participation in power rate adjustments (10 CFR Part 903) became effective on September 18, 1985 (50 CFR 37835). Power rate adjustments for the P-SMBP firm power rates are conducted consistent with 10 CFR Part 903.

III. POWER REPAYMENT STUDY

A. Study Analysis.

The PRS is used to determine if power revenues are sufficient to pay all of the project costs allocated to power for repayment within prescribed time periods. The PRS first applies revenue to payment of total annual expenses (0&M expense, interest expense, integrated projects expense and purchased power expense). Secondly, revenues are applied to all required payments for the power investments, replacements and aid to irrigation. Third, revenues are applied to repay the remaining investments and aid to irrigation beginning with the investments having the highest interest rate. In a year when revenues do not cover the total annual expenses, a deficit is incurred for that year. Deficits have been incurred in FY 1989 and FY 1990. Additional deficits are projected for FY 1991 and FY 1992. These increased deficits are one of the three major factors contributing to this rate adjustment; increased 0&M expenses and purchased power being the other two. The following is a discussion of each of these three major factors:



1. O&M Expenses.

Beginning with the 6th projected year of study, the 0&M costs in the FY 1990 PRS increased 8 percent over the 6th year in the FY 1989 PRS. 0&M increases in future budgets reflect increased concern for environmental and safety issues. Much of our 0&M is being performed on an aging woodpole transmission system requiring additional safety precautions and a higher incidence of maintenance. In addition, many of our substation facilities have been in service for a long time and we are evaluating them for existing environmental hazards or problems. Much of the heavy equipment used to maintain the system is also approaching the need for replacement.

2. Purchased Power Projections.

The continuation of the drought condition reduces the generation available for firm power sales, decreases the revenue from surplus energy sales and increases the need to purchase power to meet firm power contract commitments. Future purchased power amounts are now significant. Estimates of future year purchased power expenses can be made on the basis of Corps generation data.

Purchased power for FY 1991 is projected in the FY 1990 PRS to be \$29 million with an additional \$25 million projected for FY 1992.

Rapidly Increasing Deficits of \$63 Million.

Significant deficits have accrued in FY 1989 and FY 1990.

Deficits will increase to about \$100 million by the end of FY 1991. If the drought continues and purchased power costs are not projected in current and future PRS's these deficits will continue to increase even more rapidly.

- B. Other Discussion Issues.
 - The following discussion includes both old and new issues and their treatment in the PRS:
 - Western and the Corps of Engineers (Corps) do not agree upon the assignment of multipurpose O&M expenses to the power function. For the FY 1990 PRS, Western has adjusted the O&M figures supplied by the Corps to conform with Western's interpretation of the law regarding assignment of multipurpose O&M expenses. Western has reduced the Corps figures to an assignment of multipurpose O&M expenses based upon ultimate development percentages instead of current use percentages.
 - 2. The actual impact to cost allocations due to the Garrison Diversion Unit Reformulation Act of 1986 has not been finalized. We continue to use the estimated \$87 million of additional 2.5% power investment in the PRS. This amount has been agreed to by the Corps, Western and the Bureau, until finalized.
 - Irrigation pumping power is sold to irrigation districts
 throughout the basin under the Bureau Rate Schedule MRB-P10 at 2.5



mills/kWh. Western has formally requested the Bureau to review the rate. The Bureau Solicitor has stated that "an ability to pay" assessment needs to be performed to address the matter.

- 4. In the previous rate adjustment the Loveland Area Office (LAO) increased its transmission rates. LAO has also executed other transmission agreements. All of these additional revenues are reflected in this PRS.
- for the firm power rate. In the new rate design we included the revenues obtained from peaking in determining a 50/50 "split" for capacity and energy revenues. This consideration tends to reduce the impact on the capacity charge and thus the peaking rate, however, the energy charge is impacted to a greater degree. The "ratchet" method of billing for peaking is not proposed to be changed.
- 6. The interest rate for the Buffalo Bill modifications has been finalized under the terms of the contract at 11.07%.

C. FY 1990 PRS

In preparing the FY 1990 PRS several modifications to the FY 1989 PRS were necessary. In addition inputing the actual data for FY 1990 as a historical year, the other changes to the previous PRS (FY 1989) are as follows:



- 1. Audit adjustments made to FY 1989 data -- This is a change in the treatment of plant contributed by outside entities to the Federal facilities. Prior to this study, contributed plant items were accounted for in the power system investments with offsetting annual revenues. Revenue of \$18 million and equivalent investment costs have been deleted in the FY 1990 PRS. This has a minor rate impact.
- Revised replacements for woodpole construction -- A computerized 2. program calculates the replacement of all power system investments on the basis of service life grouping. The computer program begins projecting system replacements in the sixth future year of each power repayment study. The first five future years of replacements are included in the budget data utilized in any given PRS. When data was loaded into the new replacements program utilized in the FY 1989 PRS, all existing transmission structures were entered as steel structures. However, a large number of P-SMBP structures are woodpole. Woodpole data was incorporated into the FY 1990 PRS to appropriately reflect service life group replacement costs. The net effect was an additional \$679 million in system replacement costs above what was included in the FY 1989 PRS. This has no rate impact since the revenue is required in years beyond the "pinch point" of the study.
- 3. Interest Rate change -- Based upon information from the U.S.
 Treasury, the interest rate applicable to FY 1991 and future power



system investments is reduced slightly from last year's value (from 8.875% to 8.75%). This revised rate is also applied to future power system replacements.

- 4. Power system investments increased \$28 million between the FY 1989 PRS to the FY 1990 PRS; \$14 million is related to the new work at Fort Peck power plant number one.
- 5. JTS revenue increases -- The new transmission rate for the Joint Transmission System became effective in FY 1991 and an increase of about \$6 million per year is reflected in the system revenue.
- 6. Western Division Transmission revenues -- The rate for Western
 Division transmission service has been increased. In addition new
 transmission contracts have been signed. This has brought
 additional revenue of \$285 million into the PRS.
- 7. Purchased power projected in the FY 1990 PRS -- As discussed earlier purchased power expenses have been projected for FY 1991 and FY 1992. These are significant amounts, but are realistic in view of previous years expenditure and present water conditions.

The above changes to the FY 1989 PRS result in a proposed increase in the composite rate of 1.39 mills/kwh to become effective October 1991.



D. FY 1991 PRS

The FY 1991 PRS was prepared, utilizing the FY 1990 PRS as a base. These considerations are discussed as follows:

- 1. The best available projection of the impact of the drought on purchased power and any surplus power sales can be determined from the hydrology data of the Corps and the Bureau. Therefore, we used the basic Corps projection of generation for the year FY 1991 and the projected generation from their median inflow projection for the future years FY 1992 FY 1996. Using this data we determined the needed purchases of firming energy for each of those years as well as the relatively small amount of surplus energy sales that may be expected.
- 2. O&M expenses for the study period were increased by 5%.
- 3. Western has been informed by the Office of Personnel Management that the Civil Service Retirement Service amount for all of Western which was unfunded for the current year is about \$4.5 million. As no new Federal employees are included under that system, the unfunded amount will decline as more of the personnel under that system retire. We have determined the P-SMBP portion of the \$4.5 million to be about \$1.9 million; declining to zero in twenty years. Therefore, we have added \$1.9 million to 0&M expense in FY 1992 and a reduced amount in each year through FY 2011, to provide for this added cost.



4. The resultant 1.39 mills/kwh rate increase from the FY 1990 PRS was utilized as the rate in effect for FY 1992.

The FY 1991 PRS, incorporating the above features, indicates a need for a composite rate increase of 0.91 mills/kwh to become effective in October 1992.

E. Summary

The existing rate for P-SMBP is based upon the rate which became effective October 1990. The first increment of the composite rate increase of 1.39 mills/kwh, is proposed to become effective October 1991, and the second incremental composite rate increase of 0.91 mills/kwh in October 1992.

IV. RATE DESIGN

A. Western Division

A Western Division rate design will not be shown in this brochure. A separate rate adjustment will be processed by LAO which will include the P-SMBP Western Division revenue requirements shown below:

	STEP 1 (FY 1992)	STEP 2 (FY 1993)
Existing Revenue Requirement Additional Revenue Requirements	\$23,271,480 \$ 2,830,040	\$26,101,520 \$ 1,852,760
P-SMBP Western Div. Revenue Requirement	\$26,101,520	\$27,954,280

This revenue requirement will be combined with the revenue requirements



for the Fryingpan-Arkansas Project to design a blended rate for the Loveland Area Projects.

B. Eastern Division

The P-SMBP Firm Commercial revenue requirements are as follows:

STEP 1 (FY 1992)

Commercial Firm Sales (FY 1992)	\$120,177,760
Western Division Revenue Requirement	\$ 26,101,520
Eastern Division Revenue Requirement	\$ 94,076,240
Eastern Division Energy FY 1992	8,360 gWh
Eastern Division Composite Yield	11.25 mills/kWh

STEP 2 (FY 1993)

Commercial Firm Sales (FY 1993)	\$129,638,120
Western Division Revenue Requirement	\$ 27,954,280
Eastern Division Revenue Requirement	\$101,683,840
Eastern Division Energy FY 1993	8,360 gWh
Eastern Division Composite Yield	12.16 mills/kWh

The proposed new firm power rate has been designed as follows:

- Increase the monthly capacity charge from \$2.25/kW-month to \$2.57/kW-month in Step One and from \$2.57/kW-month to \$2.74/kW-month in Step Two.
- 2. Change the monthly energy charge from 5.57 mills/kWh to 6.49 mills/kWh in Step One for all energy delivered as firm power service and from 6.49 mills/kWh to 7.09 mills/kWh in Step Two. For all energy delivered as firm power service which is in excess of 60% monthly load factor the additional charge of 3.38 mills/kWh



will remain the same.

The 5% voltage discount and the criteria for granting the discount will not change.

A new peaking power rate schedule is proposed as follows:

- 1. Increase the monthly capacity charge from \$2.25/kW of the effective contract rate of delivery to \$2.57/kW of the effective contract rate of delivery in Step One and from \$2.57/kW of the effective contract rate of delivery to \$2.74/kW of the effective contract rate of delivery in Step Two.
- Increase the energy charge (for energy which is not returned) from
 5.57 mills/kWh to 6.49 mills/kWh in Step One and from 6.49
 mills/kWh to 7.09 mills/kWh in Step Two.

The additional charge for energy in excess of 60 percent load factor has not been increased from the existing 3.38 mills/kWh. The cost of energy in this area has remained relatively stable over the past couple of years, and is expected to increase only slightly in the near future. Studies indicate that the existing difference in rates is still adequate to meet our purchase requirements.

The types of load in the service area being so diverse results in customers with a wide range of monthly load factors an other characteristics. For the average firm power customer, this rate design results in approximately 44



percent of the revenue derived from the capacity charge and approximately 56 percent derived from the energy charge. However, when the revenues from peaking capacity sales are considered with this rate design; 50% of the revenue is received from capacity charges and 50% of the revenue is received from energy charges.

A summary of the proposed rates for the Eastern Division of P-SMBP is presented below:

EASTERN DIVISION PROPOSED RATE CHANGES

Class of Power	Present Rate (FY 1991)	Proposed Rate (FY 1992)	Proposed Rate (FY 1993)
Firm Power Service: Firm Capacity (kW) Firm Energy (kWh) composite mills/kwh		\$ 2.57/kW-month 6.49 Mills/kWh 11.25	
Additional Charge for firm energy in excess of 60-percent monthly load factor	3.38 Mills/kWh	3.38 Mills/kWh	3.38 Mills/kWh
Firm Peaking Power Servic Peaking Capacity (kW) Peaking Energy (kWh)	\$13.50/kW-season	\$15.42/kW-season 6.49 Mills/kWh	\$16.44/kW-season 7.09 Mills/kWh

V. ENVIRONMENTAL COMPLIANCE

In compliance with the National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. 4321, et seq., Council on Environmental Quality regulations (40 CFR parts 1500-1508), and DOE guidelines published in the Federal Register on December 15, 1987 (52 FR 47662), Western will evaluate the proposed rate



adjustment and prepare the appropriate documentation of NEPA compliance.

VI. REGULATORY FLEXIBILITY ACT OF 1980

Pursuant to the Regulatory Flexibility Act of 1980, 5 U.S.C. 601, et seq., to publish a proposed rule, Western is required to prepare and make available for public comment an initial regulatory flexibility analysis to describe the impact of the proposed rule on small entities. In this instance, the rate adjustment relates to nonregulatory services provided by Western. Under 5 U.S.C. 601(2), rates or services of particular applicability are not considered rules within the meaning of the Act. Since the rate is of limited applicability and is being set in accordance with specific regulations and legislation under particular circumstances, Western believes no flexibility analysis is required.



APPENDIX A (PROJECT HISTORY)

March 1991

(PROJECT HISTORY)

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PROJECT DESCRIPTION

The initial stages of the Missouri River Basin Project (MRB) were authorized by Section 9 of the Flood Control Act of December 22, 1944 (58 Stat. 887, Public Law 534, 78th Congress, 2nd session), which approved the general comprehensive plan set forth in Senate Document 191 and House Document 475, as revised and coordinated by Senate Document 247, 78th Congress. The comprehensive plan has been funded through numerous appropriation acts with the intention of providing multipurpose development of the water resources in the Missouri River Basin.

The MRB, later renamed Pick-Sloan Missouri Basin Program (P-SMBP) to honor its two principal authors, has been under construction since 1944. The P-SMBP encompasses a comprehensive program of flood control, navigation improvement, irrigation, municipal and industrial water development, and hydroelectric production for the entire Missouri River Basin. Multipurpose projects have been developed on the Missouri River and its tributaries in Colorado, Montana, Nebraska, North Dakota, South Dakota and Wyoming. Electric transmission facilities have also been constructed in those states, as well as in Iowa, Minnesota, and Missouri. In addition to the multipurpose water development units in the Missouri River Basin which were authorized by Section 9 of the Flood Control Act of 1944, certain other existing projects have been integrated with the P-SMBP for power marketing, operation, and repayment purposes. The Colorado-Big Thompson, Kendrick, and Shoshone Projects were combined with the P-SMBP in 1954, followed by the North Platte Project in 1959. These Projects are known as the "Integrated Projects" of the P-SMBP. The Flood Control Act of 1944 authorized the inclusion of the Fort Peck



Project with the P-SMBP for operation and repayment purposes. The Riverton Project was integrated with P-SMBP in 1954, and in 1970 was reauthorized as a unit of P-SMBP.

The P-SMBP has been heralded since its authorization as a pioneer in comprehensive basin-wide multipurpose development. All functions of the Program were maximized within the water resource, with some functions (i.e., power) assisting others (i.e., irrigation) with repayment of costs beyond the ability of the beneficiaries to repay. An innovative feature of the Program was its basin-wide, rather than individual project, financial management mandate which affected the scope of financial assistance to irrigation and established that repayment of all features be based on ultimate development of the Program.

Power, flood control, and navigation are the most advanced features and have been providing benefits to the basin states for many years. Upper basin states have received Federal hydropower since 1922 in the Western Division and since 1943 in the Eastern Division, and downstream states have received flood control and navigation benefits. The federal irrigation units which were included in the comprehensive plan to replace land lost to Program reservoirs in the upper basin states have yet to be developed to a comparable extent. The irrigation units presently existing in the Program are shown Appendix D.

The planning, development, and operation of the P-SMBP have been successfully carried out for approximately 45 years by the Department of the Interior, the Corps, and most recently, the Department of Energy. The success of the P-SMBP



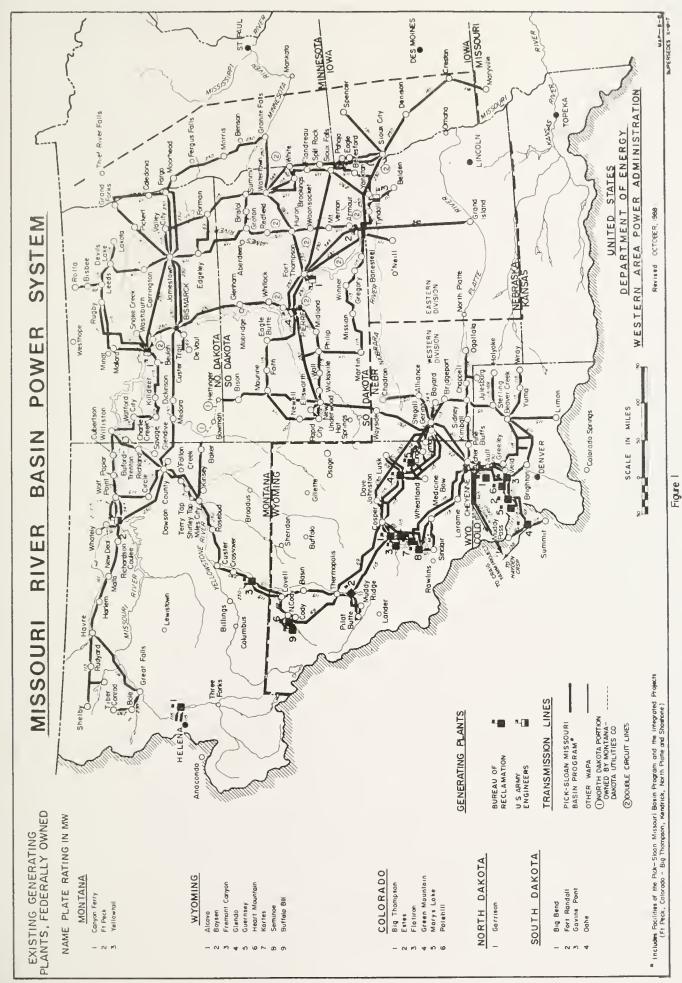
can be attributed to sound financial management, wherein power rates and costs have been carefully monitored and adjustments made, as necessary, to meet repayment obliquations.

Western's activity associated with the P-SMBP is administered by two Area Offices (see Figure 1), one located in Billings, Montana, and the other in Loveland, Colorado. There are two separate large power systems in the P-SMBP. The Eastern Division, administered by the Billings Area Office (BAO), markets power in western Iowa, western Minnesota, Montana east of the Continental Divide, North Dakota, South Dakota, and the eastern two-thirds of Nebraska and is responsible for the O&M of more than 7,600 miles of high-voltage transmission lines and about 95 substations serving approximately 275 customers. The Western Division, administered by the Loveland Area Office, markets power in northeastern Colorado, east of the Continental Divide in Wyoming, west of the 101st meridian in Nebraska and northern Kansas, and is responsible for the O&M of about 3,300 miles of high-voltage transmission lines and 75 substations serving approximately 50 customers. Both the Eastern and Western Division systems have common electrical facilities at Yellowtail Dam in Montana and at Wayside Substation, NE; however, they are separate systems. The two divisions have different generation resources, market separate allocations of firm power, are connected electrically only through the use of D.C. ties, and have separate rate structures. Nevertheless, they are both part of one authorized project (i.e., P-SMBP), and both must contribute revenue to repay P-SMBP expenses and investments. Therefore, it is necessary to run a single PRS to determine the financial position of the P-SMBP.



The Corps and the Bureau are responsible for the O&M of their respective hydroelectric and switchyard facilities. The Corps power plants consist of Fort Peck, Garrison, Oahe, Big Bend, Fort Randall, and Gavins Point. The total output from these powerplants is 2,098,000 kW from a total of 36 separate generating units. The Bureau, Great Plains Region, powerplants are Canyon Ferry, Yellowtail, Boysen, Pilot Butte, Glendo, Kortes, and Fremont Canyon with a total output of 424,600 kW from 17 generating units. In addition, the Bureau operates the Integrated Project powerplants; Green Mountain, Mary's Lake, Estes, Pole Hill, Flatiron, Big Thompson, Alcova, Seminoe, Guernsey, and Heart Mountain.





APPENDIX B (HYDROLOGY AND MARKETING CRITERIA)

March 1991

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HYDROLOGY AND MARKETING CRITERIA

A. General

Water conditions of the rivers and streams on which the P-SMBP multipurpose features are located determine the amount of power which is available and the amount of energy that can be produced and sold by the Eastern and Western Division power systems in any given year, up to the limit of the generating capacity. The Eastern and Western Divisions' long-range annual firm power sales are about 8.0 and 2.0 billion kilowatt-hours, respectively.

B. Eastern Division Hydrology and Marketing Criteria

The bar graph in Figure 1 shows the Eastern Division system natural inflow in millions of acre-feet measured at Sioux City, Iowa, by years for the period 1898-1989. The bar graph indicates that the Eastern Division experiences a wide range of water conditions. The Missouri River inflow above Sioux City has varied from a low of 10.6 million acrefeet (MAF) in 1931 to a high of 40.6 MAF in 1978. Median inflow is 25.0 MAF, with upper quartile and lower quartile inflows at 30.1 MAF and 19.8 MAF, respectively.

The marketing of firm power in the Eastern Division is based on Western's Post-1985 Marketing Plan. The Post-1985 Marketing Plan uses the adverse water conditions which occurred in 1961 as the basis for firm capacity sales. This ensures that we have adequate hydro generation to meet our firm capacity commitment under all but the most extreme water conditions. The firm energy which is marketed with capacity is that which is



available with long-term average water conditions. Over the study period, better than average water conditions can be expected to occur about half the time, and less than average water conditions about half the time.

Current reservoir conditions on the Missouri River (River) reflect a series of drought years. The inflow to the River above Sioux City, Iowa, in 1988 was only 12.5 million acre feet (MAF) (about 50% of the long-term average); in 1989 this was 17.9 MAF (about 72% of the long-term average); and in 1990 17.2 MAF (about 69%). Storage in the reservoir system on March 1, 1991, was 41.5 MAF. Ideally, the reservoirs would contain about 59 MAF by March 1. Current estimates indicate that with median inflow it will take more than 6 years to refill the reservoir system to the top of multipurpose storage.

Besides the varying water supply, which is an unpredictable factor determined by nature, the River is subject to increasing depletions as water is taken out for municipal water supplies, irrigation, and industrial development. The effects of the depletions are taken into account in the Corps Main Stem Reservoir Regulation Studies; the last being Series 8-83.

The Eastern Division markets firm capacity and energy to approximately
275 preference customers that operate inside the Eastern Division
marketing area. These preference customers are made up of municipal
power systems, rural electric cooperatives, public power districts, State



and Federal agencies, and irrigation districts. All firm power customers have fixed contract rates of delivery for Federal power and obtain their additional requirements through their own generation or purchases from auxiliary suppliers. The Eastern Division is interconnected with the Southwestern Power Administration (SWPA) at Maryville, Missouri, and through a wheeling agent's system, with the Bonneville Power Administration. From time to time, when load and production conditions are opportune, power and energy are interchanged with, sold to, or purchased from these agencies on a short-term basis to enhance the operation of each system. P-SMBP's share of hydrodiversity available through the SWPA intertie amounts to firm capacity of 25 MW. This arrangement benefits power operations of both the Eastern Division and SWPA, and revenues realized have assisted in P-SMBP repayment.

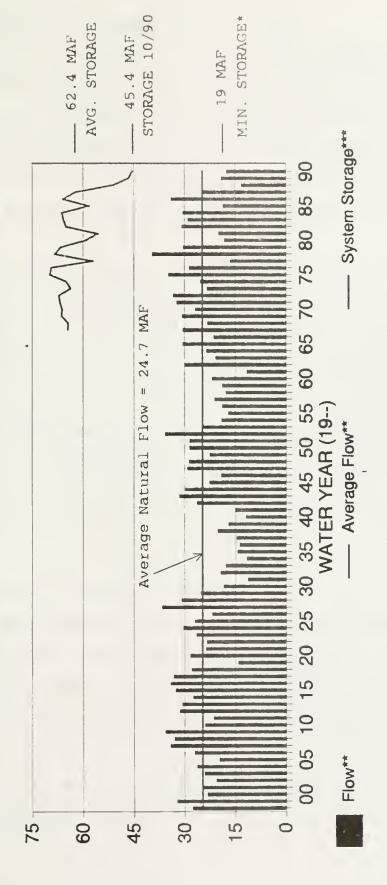
In addition, the Eastern Division is interconnected with about ten nonpreference entities. Most of these nonpreference entities wheel Western power to preference customers from the points of interconnections. Also, from time to time, short-term sales of temporary power surpluses and/or short-term purchases because of temporary generating deficits are made with these entities. Energy is also interchanged when mutually beneficial.

Commitments of firm capacity in the Eastern Division are based on projected capability available under 1961 water conditions. Firm energy is provided on the basis of a customer's hourly load pattern.



MISSOURI RIVER

NATURAL FLOW AND SYSTEM STORAGE



^{*} Combined minimum storage required for power generation.

^{**} Natural flow at Sioux City, Iowa

^{***} Includes Main Stem, Canyon Ferry, and Yellowtail Reservoirs

C. Western Division Hydrology and Marketing Criteria

The past decade has seen water conditions in 1983, 1984 and 1986 higher than the upper quartile and water conditions in 1981, 1987, 1988, 1989, and 1990 equal to or below the lower quartile. The mean total annual inflow to the Big Thompson, North Platte, and the Big Horn River Basins is 4.05 million acre-feet. The upper and lower quartile inflows are 4.8 million acre-feet and 3.12 million acre-feet respectively.

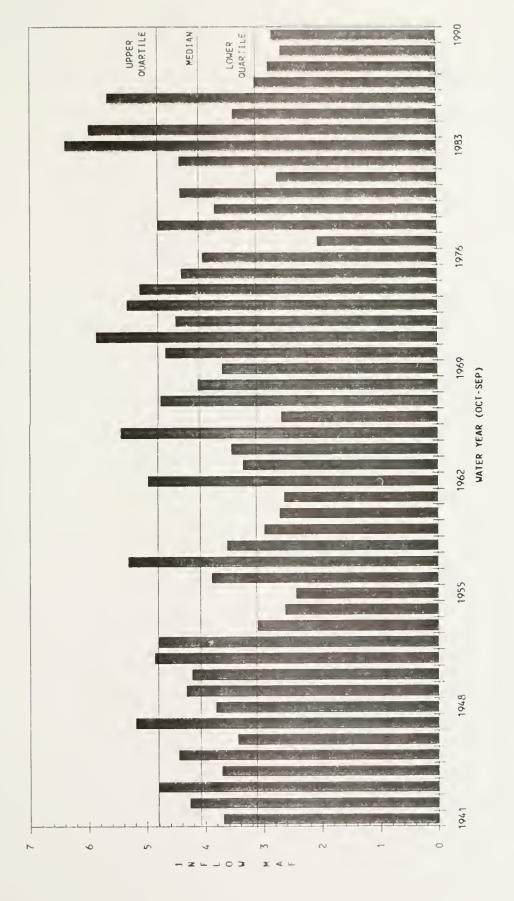
The Western Division resources contribute 516.5 MW in the summer and 438.5 MW in the winter and 2036 gWh annually to the Loveland Area Projects (LAP) marketable capacity and energy. Final allocations of the LAP marketable capacity and energy were published in the <u>Federal Register</u> under the title, "Final Post-1989 Allocation of Power; Pick-Sloan Missouri Basin Program-Western Division and Fryingpan-Arkansas Project," (52 FR 2597) on January 23, 1987. The Post-1989 General Power Marketing and Allocation Criteria: P-SMBP Western Division (51 FR 4012) became effective on the first day of the October 1989 billing period.

The marketable firm capacity for each month is limited to the capacity available 90% of the time based on a 35 year reservoir modeling study. The study used the historic record of monthly reservoir inflows for 1941 through 1975 as input. The marketable firm energy for each month is the average monthly energy based on the reservoir modeling study.

The Western Division annual system inflow, beginning in 1941, is shown in the bar graph on the next page.



HISTORIC WESTERN DIVISION INFLOWS





APPENDIX C (POWER REPAYMENT STUDY)

March 1991

PPEROIX C (POWER REPAYMENT STUDY)

1991 Illinois

POWER REPAYMENT STUDY

A. General History

The PRS for the P-SMBP is prepared by Western with the cooperation of the Bureau and the Corps. River basin hydrology, water depletions, power generation, and project development data are among the many items the Bureau and the Corps contribute to the study. The PRS is prepared in accordance with P-SMBP authorizing legislation and with DOE Order No. RA 6120.2 on Power Marketing Administration Financial Reporting.

Special Study B-5, documented in the "Report on Financial Position MRBP, December 1963", was submitted to Congress and set forth a broad statement of repayment principles endorsed by legislative history in support of or authorized in the Garrison Diversion Unit Authorization Act of August 5, 1965. Basic guidelines and criteria established therein have been incorporated in all subsequent PRS's.

B. General Description of PRS

The PRS is conducted to assure that projected revenues will balance projected expenses. Some categories in the PRS are revenues, O&M expenses, interest expenses, repayment of replacements and investment, payments to the integrated projects, and repayment of those irrigation costs which are to be paid from power revenues. The study is designed to repay the investment carrying the highest interest rate first. However, all investments are required to be repaid within their authorized repayment periods; 50 years for power investments. The repayment period for replacements is the expected service life or 50 years whichever is



less. For the repayment of future Irrigation Aid 60 years is used; this includes a 10 year development period.

Pursuant to the 1965 Garrison Unit Authorization Act and related analysis, costs relating to specific irrigation units (including main stem and other reservoir storage and irrigation pumping power cost assignments if appropriate) constructed or under construction on June 30, 1964, are to be repaid within the earliest practicable time period after completion of repayment of interest-bearing commercial power investment, but prior to irrigation units constructed after that date. Costs relating to new (after June 30, 1964) and future irrigation units, divisions, or irrigation blocks (including main stem and other reservoir storage and irrigation pumping power cost assignments if appropriate) are to be repaid within 50 years following an allowable development period (usually 10 years) after an individual unit, division, or irrigation block becomes benefit-producing. The first new irrigation not constructed or under construction on June 30, 1964, will be placed in service in 1990, thus establishing the end of the repayment period for the "old" irrigation. The 1986 Act modifies this methodology for the reformulated Garrison Unit.

C. Study Elements

The following items are entered into the PRS as actual data or as future estimates. These are then used in the study to make long-term projections of revenues and expenses.



1. Total Revenue

Total annual firm and surplus energy and the annual capacity sales are based on average and adverse water conditions respectively.

Basic data for determining power generated at the Bureau powerplants and the Corps powerplants were obtained from latest available reservoir operational studies. The generation data reflects irrigation depletions.

The "total revenues data" for a study include revenues from sales of long-term firm commercial power, sales of peaking power, sales of irrigation energy, and other revenues. These other revenues include such sales as special sales (economy energy, summer firm, maintenance energy, and replacement energy), wheeling income, joint transmission system charges, SWPA share of intertie costs, Canyon Ferry headwater benefits and others. See Appendix F for detail of the future year projections of the other revenue.

2. <u>Total Expenses</u>

a. O&M Expense

Projected O&M expenses for the 5 budget years are based on the program documents contained in the appropriate budget congressional justification. In BAO, O&M projections for the years beyond the budget period of the study are based on the last budget year amount, excluding non-recurring O&M and Conservation & Renewable Energy.



Although, the projected O&M expense is a constant figure, the wheeling expense declines proportionately as firm power sales decline. The payments made to the State of Wyoming, associated with the modifications at Buffalo Bill Dam, are included as an annual O&M expense to accommodate the mechanics of the PRS. It is important to note that the payment to Wyoming is an annual investment expense and is therefore not related to the operation and maintenance of the Federal power system. See Appendix F for detail of the future year projections on the O&M expenses.

b. Purchased Energy_Expense

Projected purchased power costs are based on the need to meet firm power contract commitments. Continuing drought conditions have been cause for the need to project purchase power costs.

c. Integrated Projects Expense

Future expenses are based on each of the PRS's for the individual Integrated Projects. Four projects, Colorado-Big Thompson, Kendrick, North Platte, and Shoshone, were combined with the P-SMBP and are known as the "Integrated Projects". This integration combined the projects' powerplants and transmission systems for operational, power marketing, and repayment purposes. Irrigation development of the Integrated Projects was completed in accord with plans contemplated in the individual pieces of authorizing legislation. Long-term



contracts established the share of the costs allocated to irrigation that the irrigation districts would repay. The remaining irrigation development costs were assigned to be repaid from power revenues. An annual transfer of funds from the P-SMBP to the Integrated Projects is made in an amount sufficient to cover O&M expenses, interest expenses, repayment of the interest-bearing power investment, and repayment of replacements. In addition to these annual costs, payments are made periodically to repay the portion of the irrigation investment assigned to power. This annual transfer of funds from P-SMBP to the Integrated Projects shows as an expense in the P-SMBP PRS.

d. <u>Total Interest Expense</u>

Interest expenses in the future years are based on the unpaid balance of the interest bearing investments. They reflect the various interest rates applied to those unpaid balances.

Western's policy for determining interest rates applicable to new construction was revised on September 1, 1982. As revised, the interest rate to be used for both interest during construction and interest on the unpaid portion of any investment, for which funds were first appropriated during or after FY 1982 for construction of new facilities, and additions and replacements, shall be the yield rate during the fiscal year in which construction is initiated. This policy was first



reflected in the FY 1983 PRS for the P-SMBP.

The change in interest rate affects only new investments initiated in FY 1982 or later. Investments under construction prior to FY 1982 continue to be subject to the interest rates of 2.5% and 3.0%. Interest rates are adjusted annually to reflect the appropriate interest cost at the time construction is initiated. Interest rates in this study vary from the original project rates of 2.5% and 3.0% to a high of 12.375% in FY 1985.

3. Power Investment

Future Investments are projected through the budget period only, and are based on program documents contained in the appropriate budget justification. The interest-bearing power investments represented in the repayment studies are the total specific power costs plus a share of the multipurpose functions allocated to power, less the suballocation to interest-free irrigation.

4. Replacements

Estimated replacement costs during the budget period are based on the program documents contained in the appropriate budget justification. The replacement costs beyond the budget period in the program documents are projected by the Replacements Program and indexed to the appropriate year cost levels.



Beginning in FY 1973, future replacement costs were treated as a capital investment and included in repayment studies. Repayment periods associated with replacements are based on a specific plant account that reflects a weighted service life and a periodic factor for each unit of property included in the total electric plant investment, but do not exceed 50 years. The units of property and plant account factors used in this study to estimate future replacements beyond the budget period are based on the May 1989 publication entitled "Replacements -- Units, Service Lives, Factors," reviewed and updated by Western in cooperation with the Bureau. The estimated service lives of the units of property reflect past experience with various facilities. The total P-SMBP electric plant investment by plant account is used in computing estimated future replacement costs.

5. Irrigation Aid

Power revenues, by law, are used to repay irrigation investment beyond the irrigators' ability to repay. This is termed "Irrigation Aid" on Exhibit 1 in Appendix E. As the irrigation aid cost for Garrison Diversion units begin to occur in the cost evaluation period ("5-year window"), they will be scheduled for repayment on the basis of 40 equal annual payments. There are no such costs in this or historic PRS's.

See the listings on the following pages for the Irrigation Aid requirements of the existing units, the units that are under construction or for which construction is expected to be completed. This also recognizes other units for which future development is anticipated. For



each of these units the year in which irrigation aid is required and the amount of aid per unit is listed. Future irrigation investments are based upon the appropriate construction cost indices.

EXISTING P-SMBP IRRIGATION PROJECTS (Irrigation Aid Associated with Each Project)

					Amount of Aid
	In	itial	Projec	t Acres	(1000
Project Name		ear_	Full	Supp	<u>Dollars)</u>
Riverton	WY -	1925 1/	64,300		\$ 44,389
Rapid Valley	SD	1948	01,000	8,900	2,111
Savage	MT	1950	2,200	0,500	639
Heart Butte	ND	1952	6,700		1,256
Frenchman-Cambridge		1952	56,500	9,600	50,704
	SD	1953	12,200	3,000	13,499
Angostura		1953	62,900		25,055
Bostwick	KS,NE	1953	400		253
Dickinson	ND				1,145
Fort Clark	ND	1954	1,900		2,721
Crow Creek	MT	1955	5,000		
Hanover-Bluff	WY	1957	7,400		6,945
Sargent	NE	1957	13,400		3,661
Kirwin	KS	1957	11,400		9,675
Owl Creek	WY	1957		11,300	8,069
Glendo	NE,WY	1958	44,600		67
Helena Valley	MT	1959	16,000		16,045
Webster	KS	1960	8,500		8,362
Cedar Bluff	KS	1963	6,800		7,159
East Bench	MT	1965	21,800	28,000	16,810
Ainsworth	NE	1965	34,500		15,699
Farwell	NE	1966	50,100		22,783
Almena	KS	1967	5,800		5,420
Glen Elder Dam & R	es.KS	1970	•		3,863
Keyhole	WY	1976		5,200	3,124
Shadehill	SD	1976	3,000	, ,	2,443
Lower Marias	MT	1979	3,200		16,362
North Loup-Block1	NE	1990	24,100		134,669
No th Loup-blocks					
SubTotal			418,100	107,600	\$422,928

^{1/} Reauthorized under P-SMBP in 1970 (PL 91-409).



TOTAL IRRIGATION AID REQUIREMENTS FOR P-SMBP

P-SMBP Units	<u>Project</u> <u>Full</u>		Year n Line	Year in which Aid Required	Amount of Aid (\$1000)
Existing Units Subtotal	418,124	107,600			422,928
Under Construction Belle Fourche 1/ North Loup North Loup	57,068 9,961 20,965	-	1991 1994 1995	2038 2053 2054	36,774 55,336 116,467
Under Construction-Subtotal	30,926				208,577
Other Units - Subtotal	1,958,010	270,000	2008 2090	2067 2149	4,872,201
Investment based upon 8	83 years = \$	58,701/y	ear		
1990 PRS In	rigation Aid	requirem	ents Sul	ototal \$	5,503,706
Garrison Diversion Unit (not a part of the 1990 PRS	130,494				696,370
GRAND TOTALS	2,538,000	377,600			6,200,077

^{1/} Belle Fourche acreage not included in projects in construction phase total as it is existing acreage transferred to P-SMBP under P.L.98-157.



APPENDIX D (SUBALLOCATION OF POWER SYSTEM COSTS TO IRRIGATION)

March 1991

SENDIX D (SUBALLOCATION OF POMER SYSTEM COSTS TO IRRIGATION)

Narch 1991

Suballocation of Power System Costs to Irrigation

The legislative history of the P-SMBP recognizes that a portion of the power produced by project hydropower plants is reserved for Federal project irrigation pumping service. It also establishes that the funding of the power system required to produce and deliver that reservation be on an interest free basis. As a means of implementing these provisions, a ratio of ultimate development pumping requirements to total system generating capacity is calculated. This ratio, or percentage, is then applied to the total investment allocated to power. The result is that portion of the power investment deemed necessary to satisfy irrigation pumping requirements, and is accordingly "suballocated" to an interest free account for the purpose of a power repayment analysis.

Since passage of the 1986 Garrison Reallocation Act this percentage has been set at 15.8%; calculated as follows:

398,360 kW (346,370 kW adjusted to an equivalent at plant value by 15% for reserves, losses and diversity) divided by

2,522,600 kW (Assumed generating capability of the hydrosystem)

= 15.8%

The amount of the Power Investment suballocated to Irrigation is then 15.8% of the Total Power Investment, excluding interest during construction.

Example: Total Power Investment in FY 1989 \$1,655,744,158 less Interest During Construction \$68,435,444

Net Power Investment \$1,587,308,714

X 0.158

Amount Suballocated to Irrigation \$250,794,777



P-SMBP IRRIGATION PROJECTS (Project Use pumping requirements)

Project Name	<u>State</u>	Initial Year	Pumping Capacity <u>(kW)</u>
Existing units Riverton Rapid Valley Savage	WY SD MT	1925 1948 1950	500
Heart Butte Frenchman-Cambr Angostura	ND idge NE SD	1952 1952 1953	550
Bostwick Dickinson Fort Clark	KS, NE ND ND	1953 1954 1954	640 485
Crow Creek Hanover-Bluff Sargent	MT WY NE KS	1955 1957 1957 1957	2,100 2,245
Kirwin Owl Creek Glendo Helena Valley Webster Cedar Bluff East Bench	WY NE,WY MT KS KS MT	1957 1958 1959 1960 1963 1965	1,200
Ainsworth Farwell Almena Glen Elder Dam Keyhole Shadehill Lower Marias	NE NE KS	1965 1966 1967 1970 1976 1976	600
North Loup-Bloc Indian Units		1990	2,015 9,904
Future units Garrison Divers MB Other Units	ion Unit		74,931 251,200
Total			346,370

POWERPLANT AND GENERATION DATA FOR THE P-SMBP SUBALLOCATION DETERMINATION

Location (Near) CORPS Main Stem Facilities:	Reservoir	Assumed Generation Capacity (kW)	
Glasgow, MT Garrison, ND Pierre, SD Chamberlain, SD Lake Andes, SD Yankton, SD	Fort Peck Sakakawea Oahe Sharpe Francis Case Lewis & Clark	430,000 595,000 468,000 320,000	(Fort Peck) (Garrison) (Oahe) (Big Bend) (Ft. Randall) (Gavins Point)
Bureau of Reclamation Facil	ities:		
Helena, MT Fort Smith, Mt Thermopolis, WY Riverton, WY Glendo, WY Casper, WY To	Canyon Ferry Bighorn Boysen Wyoming Canal Glendo Kortes Pathfinder tal Generation	250,000 15,000 1,600* 24,000 36,000	(Canyon Ferry) (Yellowtail) (Boysen) (Pilot Butte) (Glendo) (Kortes) Fremont Canyon)

^{*} Plant not presently in service



APPENDIX E (EXECUTIVE SUMMARY)

FY 1990 PRS & FY 1991 PRS

March 1991

APPENDIX E (EXECUTIVE SUMMARY)
FY 1990 PRS A FY 1991 PRS
Harch 1991

:	. 2			17	: 18	: 19	20
		·		REPLAC	EMENTS		
STUOY YEAR	F.Y. OR C.Y.	TOTAL REVENUE	OPER/ An MAINI EXPS	UNPAID FEDERAL INVESTMENT	EMENTS : : ALLOWABLE : UNPAID : FEDERAL : INVESTMENT	CUMULATIVE FEDERAL INVESTMENT	PRINCIPAL PAYMENTS
: 1: 2: 3: 4	1950 1951 1952 1953 1954	4,033 1,404 2,372 6,405					:FY 1,270 50 483 51 717 52 716 53 -709 54
5 : 6 : 7 : 8	1955 1956 1957 1958 1959	11,464 14,583 18,606 21,384 21,687					-550 55 -2,129 56 -4,367 57 -777 58 -4,264 59
: 10 : 11 : 12 : 13 : 14	1960 1961 1962 1963 1964	22,264 25,237 27,284 29,903 33,945					-3,909 60 -2,989 61 -4,454 62 10,343 63 264 64
15 16 17 18 19	1965 1966 1967 1968 1969	45,555 48,934 56,163					1,101 65 8,859 66 8,346 67 14,371 68 17,359 69
: 20 : 21 : 22	1970 1971 1972	67,757 75,287 81,477					23,235 70 27,996 71 34,494 72
REPL.							
: : 23 : 24	1973 1974	75,926 79,465			9,013 10,048	9,013 10,048	23,016 73 24,810 74
25 26 27 28 29	1975 1976 1977 1978 1979	91,429 157,439 105,538 116,303 126,310			10,758 11,201 12,228 13,574 15,040	10,758 11,201 12,228 13,574 15,040	89,639 76 47,369 77
: 30 : 31 : 32 : 33 : 34	1980 1981 1982 1983 1984	109,671 121,906 85,832 122,372 91,762			15,303 15,375 17,828 18,367 20,823	15.303 15,375 17,828 18,367 20,823	37,900 80 26,719 81 23,661 82 41,972 83 13,309 84
35 36 37	1985 1986 1987	150.988 137,908 142,991			22,267 29,856 31,576	22,267 29,856 31,576	54,975 85 29,671 86 42,095 87
: INTR. : 38	1988	128,826			39,322 40,829	39,322 40,829	18,180 88
: 39 : 40	1989 1990	122,043		7,997	48,820	48,826	90
: M15C.		136,389 9,673					
:	SUBTOT.		1	7,997	48,820	48,826	739,597
: 41 : 42 : 43 : 44	1991 1992 1993 1994	164,064 200,981 203,872 204,239		11,703 18,899 22,105 25,729	52,525 59,718 62,924 66,532	52,532 59,728 62,934 66,558	91 92 93 94
45 46 47 48 49	1995 1996 1997 1998 1999	203,913 203,539 203,392 203,392 203,377		30,891 35,606 54,949 82,453 125,113	71,572 76,282 95,593 123,097 164,897	71,720 76,435 95,778 123,283 165,942	95 28.988 96 37.883 97 40,352 98 42,176 99
: 50 : 51 : 52 : 53 : 54	2000 2001 2002 2003 2004	201,148 201,680 201,354 201,398 201,443		162,961 182,472 209,488 237,666 216,511	201,943 227,754 253,657 300,374 328,861	203,790 231,298 258,314 305,175 334,616	44,190 00 30,912 01 41,853 02 30,850 03 04
55 56 57 58	2005 2006 2007 2008 2009	201,486 201,544 201,190 201,275 201,216		198,064 169,019 141,990 108,609 57,823	359,933 376,554 398,115 415,568 419,067	366,041 384,321 406,726 425,530 429,956	05 06 07 08 09
60 61 62 63	2010 2011 2012 2013 2014	201,185 201,183 201,168 201,182 201,172		15,456	434.098 452,148 490,448 503,468 521,808	447,435 466,605 505,182 518,993 538,297	4.195 11 4.470 12 48.791 13 39,522 14
65 66 67 68 69	2015 2016 2017 2010 2019	200,987 201,017 201,033 201,077 201,092	1	8,542 17,742	532,720 556,494 569,768 570,378 572,956	561,254 589,222 604,527 616,311 620,397	61,956 15 55,110 16 39,045 17 54,465 10 84,549 19

1990 PRS page 1 of 4

POWER REPAYMENT STUDY

FOR

FISCAL YEAR 1990

PICK-SLOAN MISSOURI BASIN PROGRAM

WESTERN AREA POWER ADMINISTRATION

(ALL AMOUNTS IN \$1,000)

1	: 2 :	3	: 4 :	5	: 6	: 7 :	8 :	9 :	10	: 11	: 12	: 13	: 14	: 15 : : total unpaio:	16 ;	17	: 18	: 19 :	20
:	: :		:		EXP	ENSES					:	:	:	: :		REPLAC	EMENTS		
STUOY YEAR	F.Y. :	TOTAL	OPERATIONS : ANO : MAINTENANCE : EXPENSE :	ANO/OR :	OTHER EXPENSE	INTEGRATEO : PROJECTS :	INTEREST : EXPENSES :	TOTAL EXPENSES	PRIOR YEAR AOJUSTMENTS	REVENUE AFTER ANNUAL EXPENSES	PRINCIPAL PAYMENTS ON CAPITALIZED ANNUAL EXPENSE OEFICITS	: NET : NET :REVENUE FOR : INVESTMENT : REPAYMENT	: PRINCIPAL :PAYMENTS ON :CAPITALIZEO : REQUIREO : PAYMENTS : OEFICITS	TOTAL UNPAID: ANNUAL: EXPENSE: AND REQUIRED: PAYMENT: DEFICITS:	PRINC1PAL : PAYMENT5 :	UNPAIO FEOERAL YNVESTMENT	: ALLOWABLE : ALLOWABLE : UNPAIO : FEDERAL : INVESTMENT	: CUMULATIVE : FEOERAL : INVESTMENT	PRINCIPAL PAYMENTS
: 1 : 2 : 3	1950 1951 1952 1953 1954	4,033 1,404 2,372 6,405 8,201	1,719 636 996 1,944 2,430	62 3 2 397 312	343 115 226 433 552		631 164 416 852 1,541	2,755 918 1,640 5,660 8,906	-3 -14 -29 -4	716									1,278 50 483 5 717 50 716 5 -709 5
5 6 7 8	1955 1956 1957 1958 1959	11,464 14,583 18,606 21,384 21,687	6,373	509 943 1,549 1,283 617	831 1,065 2,646 1,532 1,598	4,688 5,078 5,382	3,331 6,001 10,176 9,326 11,898	11,953 16,643 22,815 22,734 25,867	-61 -70 -157 572 -85	-2,129 -4,367 -777 -4,264									-550 5 -2,129 5 -4,367 5 -777 5 -4,264 5
10 11 12 13 14	1960 1961 1962 1963 1964	22,264 25,237 27,284 29,903 33,945		354 1,970 2,778 562 648	1,707 1,401 1,542 8,304 9,211	4,505 5,950 5,710	11,937 12,645 15,417 16,424 20,361	26,173 28,065 31,745 39,458 44,261	10,579	-4,454 10,343 264									-3,909 6 -2,989 6 -4,454 6 10,343 6 264 6
: 15 : 16 : 17 : 18 : 19	1965 1966 1967 1968 1969	38,498 45,555 48,934 56,163 60,472	11,168 12,209 12,718 14,862	498 691 1,440 1,458 1,777	9.721 8,152 4,628 4,955 5,221	5,734 4,605 4,816	20,921 19,728 21,134 22,098 22,013	46,941 44,452 45,145 45,834 48,688	9,543 7,756 4,557 4,042 5,576	14.371 17,359									1,101 6 8,859 6 8,346 6 14,371 6 17,359 6
:	1970 1971 1972 AOJ.	67,757 75,287 81,477	17,309 18,936	2,279 2,108 1,639	5,206 5,129 5,176 -78,695	5,608 6,148	21,731 21,092 20,646	50,452 51,246 52,546 -78,695	5,930 3,955 5,563 -72,081	27,996 34,494 6,614									23,235 7 27,996 7 34,494 7
: 23	1973 1974	75,926 79,465	20,981 21,358	3,222 6,476		6,009 6,470	20,286 19,619	50,497 53,923	-14 303						9,013 1,035		9,013 10,048		23,016 7 24,810 7
: 25 : 26 : 27 : 28 : 29	1975 1976 1977 1978 1979	91,429 157,439 105,538 116,300 126,310	33,135 29,626 37,417 38,078	4,331 1,664 4,952 13,238 213		7,504 9,624 6,448 8,528 5,714	20,141 23,337 16,845 16,706 16,358	55,881 67,760 57,871 75,889 60,363	97 404 729 -473 2,856	90,083 48,396 39,941					710 444 1,027 1,346 1,466		10.758 11.201 12,228 13.574 15.040	13,574	34,935 7 89,639 7 47,369 7 38,595 7 67,338 7
: 30 : 31 : 32 : 33 : 34	1980 1981 1982 1983 1984	109,67 121,90 85,83 122,37 91,76	42,468 48,783 52,989 59,616	10,319 7,534 9,321 1,758 2,387		5,129 16,524 11,267 10,506 12,868	14,702 15,524 14,607 13,027 12,709	70,501 82,049 83,978 78,280 87,580	-1,008 -13,066 24,260 -1,581 11,583	26,791 26,114 42,511 15,765					262 72 2,453 539 2,456		15,303 15,375 17,828 18,367 20,823	15,375 17,828 18,367 20,823	37,900 8 26,719 8 23,661 8 41,972 8 13,309 8
: 35 : 36 : 37	1985 1986 1987	150,988 137,908 142,99	68,404 73,375 73,743	2,486 11,355 1,143		11,810 8,330 9,321	12,216 11,802 14,962	94,917 104,862 99,169	348 4,213 -7	37,259	1				1.444 7,589 1,720		22,267 29,856 31,576	22,267 29,856 31,576	54.975 8 29,671 8 42,095 8
INTR.												752,99					24 222		.0.100.0
: 38 : 39	1988 1989	128,826 122,04	79,311 85,276	5,411 11,779		6,393 7,713	12,989 27,421	104,103 132,189	1,203 -14,370	25,926 -24,517	-26,02	25, 92	6	26,024	7,746 1,507		39,322 40,829	40,829	18,180 8 8
: 40 : M15C.	1990	136,389		32,316 -2,202		8,728 1,055	34,685 4,988	173,773 -9,853	-19,526	-37,385	-37,38	5		63,409		7,99	7 48,820	48,826	9
:	SUBTOT,	2,835,687		151,582		259,154	613,405	2,119,934			-63,40	9 778,91	9	63,409	40,829	7,99	7 48,820	48,826	739,597
: 41 : 42 : 43 : 44	1991 1992 1993 1994	164,064 200,981 203,872 204,239	109,069 105,354	29,150 25,050		9,461 12,152 11,820 14,811	46,320 54,625 57,508 59,181	193,630 200,896 174,682 180,418		-29,566 85 29,190 23,823	8 29,19	5		92,974 92,889 63,700 39,879		11,70 18,89 22,10 25,72	5 62,924 9 66,532	59,728 62,934 66,558	9 9 9 9
: 45 : 46 : 47 : 48 : 49	1995 1996 1997 1998 1999	203,91: 203,53: 203,39: 203,39: 203,37:	95,261 95,261 95,261			9,099 8,778 15,298 15,277 14,059	59,998 58,457 54,950 52,502 51,081	176,090 162,496 165,509 163,040 161,201		27,823 41,043 37,883 40,353 42,176	12,05	5 28,98 37,88 40,35 42,17	3 2 6	12,056		30,89 35,60 54,94 82,45 125,11	76.282 9 95.593 3 123,097 3 164,897	76,435 95,778 123,283 165,942	40,352 9 42,176 9
50 51 52 53 54	2000 2001 2002 2003 2004	201,14 201,68 201,35 201,39 201,44	95,207 95,207 95,207 95,207 95,207			11,567 18,397 16,291 9,512 9,497	50,130 49,166 48,002 47,146 46,143	156,958 162,771 159,500 151,865 150,847		44,190 38,909 41,85 49,534 50,596	3	44,19 38,90 41,85 49,53 50,59	9 3 4 6		7,997 18,684 50,596	162,96 182,47 209,48 237,66 216,51	3 253,657 5 300,374 1 328,861	231,298 258,314 305,175 334,616	44,190 0 30,912 0 41,653 0 30,850 0
55 56 57 58 59	2005 2006 2007 2008 2009	201,48 201,54 201,19 201,27 201,21	95,207 95,207 95,207 95,207			11,999 16,685 16,672 16,644 17,234	37,239	151,615 154,218 151,757 149,090 146,004		49,877 47,326 49,434 52,189 55,212) 	49,87 47,32 49,43 52,18 55,21	4 5 2		49,871 47,326 49,434 52,185 55,212	57,82		406,726 425,530 429,956	0 0 0 0 0
60 61 62 63 64	2010 2011 2012 2013 2014	201,18	3 95,207 8 95,207 2 95,207 2 95,207			16,646 40,464 37,228 31,582 9,647	29,496 26,680 25,684 25,545 23,737	141,349 162,352 158,120 152,335 128,592		59,835 38,835 43,046 40,848 72,500	2	59,83 38,03 43,04 48,84 72,58	2 8 8 0		59,835 34,636 38,577 56 33,058	15,46	452,148 490,448 503,468 521,808	518,993	4,195 1 4,470 1 48,791 1 39,522 1
65 66 67 68 69	2015 2016 2017 2016 2019	201,01 201,03 201,03	7 95,207 3 95,207 7 95,207			7,925 11,127 14,623 25,439 7,404	21,483 20,804 10,310 14,131 9,765	124,616 127,139 128,140 134,027 112,457		76,37 73,878 72,893 66,249 88,63		76,37 73,87 72,89 66,24 88,63	8 2 9		14,415 18,768 33,047 11,784 4,086	8,54; 17,74;	532,720 556,494 569,768 570,378 572,956	616,311	55,110 19 55,110 19 39,845 1 54,465 16 84,549 19

21	; 22	23	24	: 25	26	27 :	28	; 29	; 30
POWER INV	ESTMENTS			IRRIGATIO	N AIO			:	
UNPAIO FEOERAL NVESTMENT	ALLOWABLE UNPAIO FEOERAL INVESTMENT	CUMULATIVE FEOERAL INVESTMENT	PRINCIPAL PAYMENTS	: : UNPAIO : FEOERAL : INVESTMENT :	ALLOWABLE UNPAIO FEOERAL INVESTMENT	CUMULATIVE : FEOERAL : INVESTMENT :		; ; ; ;	: CUMULATIVE : CUMULATIVE : EARNEO : SURPLUS
5,466 13,869 28,392 51,355 111,026	6,744 15,630 30,870 54,549 113,511	6,744 15,630 30,870 54,549 113,511		5,656 5,656 22,145 22,597 23,697	5,656 5,656 22,145 22,597 23,697	5,656 5,656 22,145 22,597 23,697			
200.034 340,226 358,305 396,580 397,907	201,970 340,032 353,745 391,242 388,305	201,970 340,032 353,745 391,242 388,305		25,210 47,606 85,267 91,816 96,352	25,210 47,606 85,267 91,816 96,352	25,210 47,606 85,267 91,816 96,352			
421,497 513,901 577,126 678,690 697,356	407,986 497,400 556,386 668,078 687,008	407,986 497,400 556,386 668,078 687,008		162,857 162,857 169,921 204,433 222,897	162,857 162,857 169,921 204,433 222,897	162,857 162,857 169,921 204,433 222,897			
770,341 827,381 861,389 859,949 850,780	761,094 826,993 869,347 882,278 890,467	761.094 826,993 869,347 882,278 890,467		222,897 228,396 244,233 245,812 245,812	222,897 228,396 244,233 245,812 245,812	222,897 228,396 244,233 245,812 245,812			
828,706 814,673 806,774	891,629 905,592 932,187	891,629 905,592 932,187		245,812 266,421 266,421	245,812 266,421 266,421	245,812 266,421 266,421			
784.719 791,472	933.149 964,712	933,149 964,712		266,421 266,421	266,421 266,421	266,421 266,421			
760,074 673,795 629,541 609,002 543,242	968.249 971,609 974,725 992,780 994.358	968,249 971,609 974,725 992,780 994,358		266,421 266,421 266,421 268,717 268,717	266,421 266,421 266,421 268,717 268,717	266,421 266,421 266,421 268,717 268,717			
540,706 523,171 512,796 427,840 434,990	1,029,722 1,038,906 1,052,192 1,009,207 1,029,667	1,029,722 1,038,906 1,052,192 1,009,207 1,029,667		268,717 268,717 294,408 291,726 303,414	268,717 268,717 294,408 291,726 303,414	268,717 268,717 294,408 291,726 303,414			
415,302 475,239 441,158	1,064,954 1,154,562 1,162,575	1,064,954 1,154,562 1,162,575		345,885 347,083 413,512	345,885 347,083 413,512	345,885 347,083 413,512			
594,036 665,352	1,333,633	1,333,633		421,862 422,928	421.882 422,928	421,882 422,928			
680,281	1,419,879	1,419,879		422,928	422,928	422,928			
680,281	1,419,879	1,419,879		422,928		422,928			
844,130 870,123 922,373 959,389	1,583,728 1,609,721 1,661,971 1,696,995	1,583,728 1,609,721 1,661,971 1,698,987		459,702 459,702 459,702 515,038	515,038	459,702 459,702 459,702 515,038			
991,878 962,890 925,008 884,656 842,480	1,729,417 1,728,816 1,728,581 1,726,436 1,726,241	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505			
798,289 767,377 725,524 694,674 694,674	1,725,119 1,716,731 1,702,347 1,679,997 1,624,343	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505			
694,674 694,674 694,674 694,674 694,674	1,362,199	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		631,505 631,505 631,505 690,206 748,907	631,505 631,505 631,505 690,206 748,907	631,505 631,505 631,505 690,206 748,907			
694,674 690,479 686,008 637,217 597,695	1,343,482 1,258,448 1,202,351 1,096,130 1,078,127	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		807.608 866,309 925,010 903,711 1.042,412	807,608 866,309 925,010 903,711 1,042,412	807,608 866,309 925,010 983,711 1,042,412			
535,739 480,629 440,784 386,319 301,770	1,007,670 944,099 904,577 802,263 884,443	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		1,101,113 1,159,814 1,210,515 1,277,216 1,335,917	1,101,113 1,159,814 1,218,515 1,277,216 1,335,917	1,101,113 1,159,814 1,218,515 1,277,216 1,335,917			

1 :	2 :	3 :	4 ;	5	; 6	: 7 :	8 :	9	: 10	; 11	; 12	: 13	: 14	: 15	: 16	: 17 ;	18 :	: 19 :	20
: : :	:				E)	PENSES			:		: : DDINCIPAL	:	: DDINGIDAL	: :	:	REPLACE	MENTS		
STUOY :	F.Y. : OR : C.Y. :	TOTAL REVENUE	OPERATIONS : AND : MAINTENANCE : EXPENSE :	CAPACITY AND/OR ENERGY PURCHASE EXPENSE	OTHER EXPENSE	PENSES : : : : : : : : : : : : : : : : : : :	INTEREST EXPENSES	TOTAL EXPENSES	PRIOR YEAR ADJUSTMENT	REVENUE AFTER ANNUAL S: EXPENSES	PAYMENTS ON CAPITALIZED ANNUAL EXPENSE OEFICITS	NET REVENUE FOR INVESTMENT REPAYMENT	PAYMENTS ON CAPITALIZED REQUIRED PAYMENTS OFFICITS	: ANNUAL : EXPENSE :AND REQUIRED : PAYMENT : OEFICITS	PRINCIPAL PAYMENTS	UNPAID FEDERAL INVESTMENT	ALLOWABLE UNPAID FEDERAL INVESTMENT	CUMULATIVE FEDERAL INVESTMENT	PRINCIPAL PAYMENTS
: 70 : 71 : 72 : 73 : 74	2020 2021 2022 2023 2024	194,346 194,390 194,405 194,421 194,465	94,996 94,996 94,996 94,996 94,996			7,754 7,952 7,945 9,741 7,542	7,247 5,950 4,345 2,723 839	109,997 108,898 107,287 107,461 103,377		84,349 85,49 87,119 86,969 91,08	9 3 8 0 8	84,349 85,493 87,118 86,960 91,088			15,856 5,130 39,551 4,338 6,418		586,604 589,620 625,828 621,106 623,306	641,384 680,935 685,273	24,104 20 80,362 21 47,567 22 82,622 23 67,115 24
75 76 77 77 78	2025 2026 2027 2028 2029	194,480 194,510 193,448 193,505 193,505	94,996 94,996 90,101 90,101 90,101			7,549 9,574 9,879 9,653 9,760	3,286 3,795 509	102,545 104,570 103,266 103,549 100,370		91,93 89,94 90,18 89,95 93,13	0 2 6 5	91,935 89,940 90,182 89,956 93,135			17,422 34,832 90,182 89,956 67,554	71,338 11,642	638,848 669,363 828,510 854,570 907,253	743,945 905,465 935,725	25 26 27 28 29
80 81 82 83 84	2030 2031 2032 2033 2034	193,520 190,421 190,450 190,481 190,496	90,101 90,101 90,101 90,101 90,101			9,560 12,753 10,074 10,733 10,733		99,660 102,854 100,175 100,834 100,834		93,86 87,56 90,27 89,64 89,66	0 7 5 6 2	93.860 87,567 90,275 89,646 89,662			50,293 43,951 3,800 26,842 12,706		954,964 981,197 981,418 982,000 981,898	1,085,881 1,089,691 1,116,522	30 31 32 33 34
85 86 87 88 89	2035 2036 2037 2038 2039	190,526 190,568 190,583 190,613 190,642	90,101 90,101 90,101 90,101 90,101			10,733 10,733 10,733 10,733 10,733		100,834 100,834 100,834 100,834 100,834		89,69 89,73 89,74 89,77 89,80	4 9 9 8	89,692 89,734 89,749 89,779 89,808			15,559 12,045 38,321 24,585 25,163		994,843 990,637 1,012,251 1,015,916 1,014,695	1,156,831 1,195,152 1,219,737 1,244,900	35 36 37 38 39
90 91 92 93 94	2040 2041 2042 2043 2044	184,176 184,133 184,177 184,192 184,220	89,855 89,855 89,855 89,855 89,855			10,733 10,733 10,733 10,733 10,733		100,589 100,589 100,589 100,589		83,58 83,58 83,60 83,63	7 4 8 4 1	83,587 83,544 83,588 83,604 83,631			18,676 8,194 13,926 26,392 45,028		1,017,946 1,016,585 1,025,514 1,025,415 1,024,784	1,263,576 1,271,770 1,285,696 1,312,088 1,357,116	42 43
95 96 97 98 99	2045 2046 2047 2048 2049	184,220 184,264 184,279 184,295 184,325	89,855 89,855 89,855 89,855 89,855			10,733 10,733 10,733 10,733 10,733		100,589 100,589 100,589 100,589		83,63 83,67 83,69 83,70 83,73	6 1 6	83,631 83,676 83,691 83,706 83,736			34,282 15,243 17,105 19,304 4,213		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	1,406,641 1,423,747 1,443,051	45 46 47 48 49
100 101 102 103 104	2050 2051 2052 2053 2054	184,354 184,369 184,412 184,427 184,427	89.855 89.855 89.855 89.855 89.855			10,733 10,733 10,733 10,733 10,733		100,589 100,589 100,589 100,589		83,76 83,78 83,82 83,83 83,86	9	83,765 83,781 83,823 83,839 83,868			8,716 13,337 26,417 15,340 25,788	, ,)	1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	1,455,980 1,469,316 1,495,733 1,511,073 1,536,861	56 51 52 53 54
105 106 107 108 109	2055 2056 2057 2058 2059	184,467 184,502 184,532 184,561 184,577	89,855 89,855 89,855 89,855 89,855			10,733 10,733 10,733 10,733 10,733		100,589 100,589 100,589 100,589		83,89 83,91 83,94 83,97 83,98	3 4 3	83,898 83,913 83,944 83,973 83,988			17,522 31,943 17,165 48,960 10,949		1.024,306 1.024,306 1.024,306 1.024,306 1.024,306	1,586,326	55 56 57 58 59
110 111 112 113 114	2060 2061 2062 2063 2064	177,786 177,869 177,955 178,052 178,146	89,331 89,323 89,313 89,305 89,298			10,733 10,733 10,733 10,733 10,733	5,309 9,312	100,064 100,056 100,046 105,347 109,343		77,72 77,81 77,90 72,70 68,80	2 4 8 5 4	77,722 77,814 77,908 72,705 68,804			18.109 35.651 48.117 72.705 68.804	118,306	1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	1,765,277 1,956,287	64
115 116 117 118 119	2065 2066 2067 2068 2069	178,229 178,324 178,416 178,513 178,593	89,269 89,282 89,275 89,266 89,259			10,733 10,733 10,733 10,733 10,733	7,455 5,092 1,643	107,477 105,107 101,650 99,999 99,992		70,75 73,21 76,76 78,51 78,60	7 6 4	70,751 73,217 76,766 78,514 78,601			70,751 73,217 67,713 9,389 16,937	37,543	1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,053,316 2,088,296 2,118,466 2,127,855 2,144,792	68 69
120 121 122 123 124	2070 2071 2072 2073 2074	178,688 178,770 178,865 178,963 179,042	89,252 89,243 89,236 89,228 89,220			10,733 10,733 10,733 10,733 10,733		99,985 99,976 99,969 99,961 99,953		78,70, 78,79 78,89 79,00 79,08	6 2	78,703 78,794 78,896 79,002 79,089			22,580 3,676 5,134 12,431 25,147		2,024,306 1,024,306 1,024,306 1,024,306 2,024,306	2,171,048 2,176,183 2,188,614 2,213,760	70 71 72 73 74
125 126 127 128 129	2075 2076 2077 2078 2079	179,135 179,246 179,334 179,415 179,509	89,213 89,205 89,194 89,187 89,179			10,733 10,733 10,733 10,733 10,733		99,946 99,938 99,927 99,920 99,913		79,18 79,30 79,40 79,49 79,59	8 7 5	79,189 79,308 79,407 79,495 79,596			42,123 17,814 6,994 10,432 23,058		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,255,883 2,273,697 2,280,691 2,291,123 2,314,181	75 76 77 78 79
: 130 : 131 : 132 : 133 : 134	2080 2081 2082 2083 2084	174,417 174,499 174,580 174,686 174,784	89,106 89,098 89,091 89,083 89,075			10,733 10,733 10,733 10,733 10,733		99,839 99,831 99,824 99,816 99,808		74,57 74,660 74,75 74,87 74,97	8 6 0	74,577 74,668 74,756 74,878 74,976			17,594 2,036 4,370 902 21,437		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,331,775 2,333,811 2,338,182 2,339,084 2,360,521	80 81 82 83 84
: 135 : 136 : 137 : 138 : 139	2085 2086 2087 2088 2089	174,863 174,799 174,733 174,666 174,602	89,068 89,059 89,052 89,045 89,036			10,733 10,733 10,733 10,733 10,733		99,801 99,792 99,785 99,778 99,769		75,06 75,00 74,94 74,88 74,83	7 7 8	75,062 75,007 74,947 74,886 74,833			3,490 31,855 8,139 30,608 34,890		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,364,011 2,395,866 2,404,005 2,434,612 2,469,503	85 86 87 88 89
: 140 : TOTAL	2090	174,536 21,662,034	89,029 10,315,013	205,782		10,733	1,819,169	99,762	1,26	74,77	3	74,773			35,417		1,024,306	2,504,919	90 1,731,475

1990 PR page 4

1991 PRS page 1 o

POWER REPAYMENT STUDY

FOR

FISCAL YEAR 1991

PICK-SLOAN MISSOURI BASIN PROGRAM

WESTERN AREA POWER ADMINISTRATION

(ALL AMOUNTS IN \$1,000)

											MOUNTS IN \$1,0								
: 1	: 2 :	3	: 4 :	5 :	6 :	7 :	8 ;	9 ;	10 :	11	12 ;	13	: 14	: 15 :	16 :	17 :	18 :	19 ;	20
: STUOY : YEAR	F.Y. : OR : C.Y. :	TOTAL REVENUE	: OPERATIONS : : AND : : MAINTENANCE: : EXPENSE :	ENERGY : PURCHASE : EXPENSE :	OTHER : EXPENSE :	INTEGRATED : PROJECTS :	INTEREST : EXPENSES :	TOTAL : EXPENSES :	PRIOR YEAR AOJUSTMENTS	AFTER ANNUAL EXPENSES	: ANNUAL : EXPENSE : DEFIGIIS	REVENUE FOR INVESTMENT REPAYMENT	: REQUIRED : PAYMENTS : DEFICITS	TOTAL UNPAIO: ANNUAL EXPENSE AND REQUIREO: PAYMENT OEFICITS	PRINCIPAL : PAYMENT5 :	UNPAIO FEOERAL INVESTMENT	UNPAID FEDERAL INVESTMENT	CUMULATIVE FEOERAL INVESTMENT	PRINCIPAL PAYMENTS
: 1: 2: 3: 4	1950 1951 1952 1953 1954	4,033 1,404 2,372 6,405 8,201	1,719 636 996 1,944	62 3 2 397 312	343 115 226 433 552	2,033 4,071	631 164 416 852 1,541	2,755 918 1,640 5,660 8,906	-3 -14 -29 -4	1,278 483 717 716 -709									1,278 50 483 51 717 52 716 53 -709 54
: 5 : 6 : 7 : 8 : 9	1955 1956 1957 1958 1959	11,464 14,583 18,606 21,384 21,687	3,994 4,756	509 943 1,549 1,283 617	831 1,065 1,646 1,532 1,598	3,994 4,640 4,686 5,078 5,382	3,331 6,001 10,176 9,326 11,898	11,953 16,543 22,815 22,734 25,867	-61 -70 -157 572 -85	-550 -2,129 -4,367 -777 -4,264									-550 55 -2,129 56 -4,367 57 -777 58 -4,264 59
: 10 : 11 : 12 : 13 : 14	1960 1961 1962 1963 1864	22,264 25,237 27,284 29,903 33,945	7,072 7,504 8,219	354 1,970 2,778 562 648	1,707 1,401 1,542 8,304 9,211	5,535 4,977 4,505 5,950 5,710	11,937 12,645 15,417 16,424 20,361	26,173 28,065 31,745 39,458 44,261	-162 7 19,898 10,579	-3,909 -2,989 -4,454 10,343 264									-3,909 60 -2,989 61 -4,454 62 10,343 63 264 64
: 15 : 16 : 17 : 18 : 19	1965 1966 1967 1968 1969	38.498 45,555 48,934 56,163 60,472	11,168 12,209 12,718	498 691 1,440 1,458 1,777	9,721 8,152 4,628 4,955 5,221	5,421 4,713 5,734 4,605 4,816	20,921 19,728 21,134 22,096 22,013	46,941 44,452 45,145 45,834 48,688	9,543 7,756 4,557 4,042 5,576	1,101 8,859 8,346 14,371 17,359									1,101 65 8,859 66 8,346 67 14,371 66 17,359 69
20 21 22 REPL.	1970 1971 1972 AOJ.	67.757 75.287 81.477	17,309	2,279 2,108 1,639	5,206 5,129 5,176 -78,695	5,606 5,608 6,148	21,731 21,092 20,646	50,452 51,246 52,546 -78,695	5,930 3,955 5,563 -72,081	23,235 27,996 34,494 6,614									23,235 70 27,996 71 34,494 72
23	1973 1974	75,926 79,465		3,222 6,476		6,009 6,470	20,286 19,619	50,497 53,923	-14 303	25,415 25,845					9,013 1,035		9,013 10,048		23,016 73 24,810 74
: 25 : 26 : 27 : 28 : 29	1975 1976 1977 1978 1979	91,429 157,439 105,538 116,303 126,310	33,135 29,626 37,417	4,331 1,664 4,952 13,238 213		7,504 9,624 6,448 8,528 5,714	20,141 23,337 16,845 16,706 16,358	55,881 67,760 57,871 75,889 60,363	97 404 729 -473 2,856	35,645 90,683 48,396 39,941 68,804					710 444 1,027 1,346 1,466		10,758 11,201 12,228 13,574 15,040	11,201 12,228 13,574	34,935 75 .89,639 76 47,369 77 38,595 78 67,338 79
: 30 : 31 : 32 : 33 : 34	1980 1981 1982 1983 1984	109,671 121,906 85,832 122,372 91,762	42,468 48,783 52,989	10,319 7,534 9,321 1,758 2,387		5,129 16,524 11,267 10,506 12,868	14,702 15,524 14,607 13,027 12,709	70,501 82,049 83,978 78,280 87,580	-1,008 -13,066 24,260 -1,581 11,583	38,162 26,791 26,114 42,511 15,765					262 72 2.453 539 2.456		15,303 15,375 17,828 18,367 20,823	15, 375 17,828 18,367	37,900 80 26,719 8 23,661 80 41,972 8 13,309 8
35 36 37	1985 1986 1987	150,988 137,908 142,991	73,375	2,486 11,355 1,143		11,810 8,330 9,321	12,216 11,802 14,962	94,917 104,862 99,169	348 4,213 -7	56,420 37,259 43,815					1,444 7,589 1,720		22,267 29,856 31,576	29,856	54,975 8 29,671 8 42,095 8
: INTR.	1988	128,826		5,411		6,393	12,989	104,103	1,203	25,926		752,99 25,92		26 024	7.746		39,322		18,186 8
: 39 : 40	1989 1990	122,043 136,389	·	11,779 32,316		7,713 8,728	27,421 34,685	132,189 173,773	-14,370	-24,517 -37,385				26,024 63,409	1,507	7,997	40,829 48,820		90
MISC.	ADJ. SUSTOT,	9,673		-2,202		1,055	4,988	-9,853	-19,526	717 010	63 400	776,91	0	63,409	40,829	7,997	48,820	48,826	739,597
: 41 : 42 : 43 : 44	1991 1992 1993 1994	2,835,687 164,754 189,364 208,325 211,525	108,689 115,725 111,710	30,550 22,850 7,000 4,700		259,154 9,461 12,152 11,820 14,811	613,405 46,351 55,396 59,579 61,970	2,119,934 195,061 206,123 190,110 194,206	1,266	717,018 -30,307 -16,759 18,215 17,319	-30,307 -16,759 18,215		3	93,715 110,475 92,259 74,940	40,023	11,703 18,899 22,105 25,729	52,525 59,718 62,924 66,532	52,532 59,728 62,934	91 92 93 94
: 45 : 46 : 47 : 48 : 49	1995 1996 1997 1998 1999	212,651 213,142 213,655 213,655 213,640	112,228 101,425 101,331	2,800 1,800		9,099 8,778 15,298 15,277 14,859	63,247 62,896 60,942 58,857 57,316	188,356 185,701 177,665 175,465 173,412		24,295 27,440 35,990 38,189 40,227	27,440 23,205		9	50,646 23,205		30,891 35,606 54,949 82,453 125,113	71,572 76,262 95,593 123,097 164,897	76,435 95,778	95 96 12,784 97 38,189 98 40,227 99
50 51 52 53 54	2000 2001 2002 2003 2004	211,411 211,958 211,607 211,650 211,691	100,995 100,901 100,807			11,567 18,397 16,291 9,512 9,497	56,295 54,852 53,436 52,740 51,632	169,005 174,245 170,628 163,059 161,843		42,405 37,713 40,979 48,591 49,849		42,40; 37,71; 40,97; 48,59; 49,84	3 9		7,997 5,537	162,961 190,469 209,488 256,349 260,252	201,943 227,754 253,657 300,374 328,861	334,616	42,405 00 37,713 01 32,982 02 48,591 03 44,311 04
55 : 56 : 57 : 58 : 59	2005 2006 2007 2008 2009	211,731 211,783 211,425 211,504 211,438	100,525 100,431 100,337			11,999 16,685 16,672 16,644 17,234	50,019 48,003 45,619 43,044 39,428	162,637 165,213 162,723 160,025 156,906		49,094 46,570 48,702 51,479 54,532		49.09 46.57 48.70 51.47 54.53	3		49,094 46,570 48,702 51,479 54,532	262,583 234,294 207,996 175,322 125,215	359,933 376,554 398,115 415,568 419,067	429,956	05 06 07 08 09
: 60 : 61 : 62 : 63 : 64	2010 2011 2012 2013 2014	211,400 211,393 211,372 211,363 211,369	100,055 99,961 99,961			16,646 40,464 37,228 31,582 9,647	35,420 32,726 31,827 31,677 29,965	152,216 173,246 169,017 163,221 139,574		59,134 38,147 42,356 48,162 71,795		59,18 38,14 42,35 48,16 71,79	7 6 2		59,184 38,147 39,356 371 55,964	83,516 64,533 63,754 77,195 40,534	434.098 452.148 490,448 503,468 521,806	536,297	3,000 11 3,000 12 47,791 13 15,831 14
: 65 : 66 : 67 : 68 : 69	2015 2016 2017 2018 2019	211,167 211,194 211,207 211,246 211,260	99,961 99,961 99,961			7,925 11,127 14,623 25,409 7,484	27,720 27,115 24,812 20,532 14,888	135,607 136,204 139,397 145,902 122,334		75,560 72,990 71,810 65,266 88,926		75,566 72,999 71,810 65,260 88,920	0 0		13,604 17,880 61,010 26,053 4,006	49,887 59,975 14,269	532,720 556,494 569,768 570,378 572,956	561,254 589,222 604,527 616,311 620,397	61,956 15 55,110 16 10,800 17 39,212 18 84,840 19

: 21	22	23	24	: 25 ;	26	27 :	28		: 30	:
POWER INVE	STMENTS			IRRIGATIO	N AIO			:		:
UNPA10 FEOERAL INVESTMENT	ALLOWABLE UNPAID FEOERAL INVESTMENT	CUMULATIVE FEOERAL INVESTMENT	PRINCIPAL PAYMENTS	UNPAID FEOERAL INVESTMENT	ALLOWABLE : UNPAIO : FEDERAL : INVESTMENT :	CUMULATIVE : FEDERAL : INVESTMENT :		:	: SURPLUS	
5,466 13,869 28,392 51,355 111,026	6,744 15,630 30,870 54,549 113,511	6,744 15,630 30,870 54,549 113,511		5,656 5,656 22,145 22,597 23,697	5,656 5,656 22,145 22,597 23,697	5,656 5,656 22,145 22,597 23,697				:FY :50 :51 :52 :53 :54
200,034 340,226 358,305 396,580 397,907	201,970 340,032 353,745 391,242 388,305	201,970 340,032 353,745 391,242 388,305		25,210 47,606 85,267 91,816 96,352	25,210 47,606 85,267 91,816 96,352	25,210 47,606 85,267 91,816 96,352				: :55 :56 :57 :58 :59
421,497 513,901 577,126 678,690 697,356	407,986 497,400 556,386 668,078 687,008	407,986 497,400 556,386 668,078 687,008		162,857 162,857 169,921 204,433 222,897	162,857 162,857 169,921 204,433 222,897	162,857 162,857 169,921 204,433 222,897				: 60 : 61 : 62 : 63 : 64
770,341 827,381 861,389 859,949 850,780	761,094 826,993 869,347 882,278 890,467	761,094 826,993 869,347 882,278 890,467		222,897 228,396 244,233 245,812 245,812	222,897 228,396 244,233 245,812 245,812	222,897 228,396 244,233 245,812 245,812				: 65 : 66 : 67 : 68 : 69
828,706 814,673 806,774	891,629 905,592 932,187	891,629 905,592 932,187		245,812 266,421 266,421	245,812 266,421 266,421	245,812 266,421 266,421				:70 :71 :72
784,719 791,472	933,149 964,712	933,149 964,712		266,421 266,421	266,421 266,421	266,421 266,421				: :73 :74
760,074 673,795 629,541 609,002 543,242	968,249 971,609 974,725 992,780 994,358	968,249 971,609 974,725 992,780 994,358		266,421 266,421 266,421 268,717 268,717	266,421 266,421 266,421 268,717 268,717	266,421 266,421 266,421 268,717 268,717				: :75 :76 :77 :78 :79
540,786 523,171 512,796 427,840 434,990	1,029,722 1,038,906 1,052,192 1,009,207 1,029,667	1,029,722 1,038,906 1,052,192 1,009,207 1,029,667		268,717 268,717 294,408 291,726 303,414	268,717 268,717 294,408 291,726 303,414	268,717 268,717 294,408 291,726 303,414				:80 :81 :82 :83 :84
415,302 475,239 441,159	1,064,954 1,154,562 1,162,575	1,064,954 1,154,562 1,162,575		345,885 347,083 413,512	343,885 347,083 413,512	345,885 347,063 413,512				: :85 :86 :87
594, 03 6 665, 3 52	1,333,633	1,333,633		421,882 422,928	421,882 422,928	421,882 422, 9 28				:88
680,281	1,419,879	1,419,879		422,928	422,928	422,928				90
680,281	1,419,879	1,419,879		422,928	422,928	422,928				:
844,130 870,123 922,373 959,389	1,583,728 1,609,721 1,661,971 1,696,995	1,583,728 1,609,721 1,661,971 1,698,987		459,702 459,702 459,702 515,038	459,702 459,702 459,702 515,038	459,702 459,702 459,702 515,038				:91 :92 :93 :94
991,878 991,878 979,094 940,904 900,677	1,729,417 1,728,816 1,728,581 1,726,436 1,726,241	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505				:95 :96 :97 :98 :99
858,272 820,558 787,576 738,985 694,674	1,725,119 1,716,731 1,702,347 1,679,997 1,624,343	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505	631,505 631,505 631,505 631,505 631,505				: :00 :01 :02 :03 :04
694,674 694,674 694,674 694,674 694,674	1,540,849 1,410,535 1,397,592 1,362,199 1,362,199	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		631,505 631,505 631,505 690,206 740,907	631,505 631,505 631,505 690,206 748,907	631,505 631,505 631,505 690,206 748,907				105 :06 :07 :08 :09
694,674 694,674 691,674 643,882 628,051	1,343,482 1,258,448 1,202,351 1,096,130 1,078,127	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		807,608 866,309 925,010 983,711 1,042,412	807,608 866,309 925,010 983,711 1,842,412	807,608 866,309 925,010 983,711 1,042,412				:10 :11 :12 :13 :14
566,096 510,986 500,106 460,974 376,134	1,007,670 944,999 904,577 892,263 881,443	1,731,475 1,731,475 1,731,475 1,731,475 1,731,475		1,101,113 1,159,814 1,210,515 1,277,216 1,335,917	1,101,113 1,159,814 1,218,515 1,277,216 1,335,917	1,101,113 1,159,814 1,218,515 1,277,216 1,335,917				: 15 : 16 : 17 : 18 : 19

1	; 2 ;	3 :	: 4 :	5 :	6	: 7 :	8 :	9 :	10	11	: 12 : 13	: 14 : 1	5 : 16 :	17 :	18 ;	19 ;	20
STUDY	F.Y. :	TOTAL	OPERATIONS : AND : MAINTENANCE :	CAPACITY : AND/OR : ENERGY : PURCHASE :	OTHER FXPENSE	: : : : : : : : : : : : : : : : : : :	INTEREST :	TOTAL :	PRIOR YEAR ADJUSTMENTS	REVENUE AFIER ANNUAL FXPENSES	PRINCIPAL : PAYMENTS ON : CAPITALIZED : NET ANNUAL : REVENUE FOR EXPENSE : INVESTMENT DEFICITS : REPAYMENT	: PRINCIPAL :TOTAL : :PAYMENTS ON : ANN :CAPITALIZEO : EXPE : REQUIRED :AND RE : PAYMENTS : PAYM : DEFICITS : DEFI	UNPAID: UAL : UAL : USE : QUIRED: ENT : PRINCIPAL : CITS : PAYMENTS	UNPAID : FEDERAL : INVESTMENT :	ALLOWABLE : UNPAID : FEOERAL : INVESTMENT :	CUMULATIVE : FEDERAL : INVESTMENT	PRINCIPAL PAYMENTS
: 70 : 71 : 72 : 73 : 74	2020 2021 2022 2023 2024	204.242 204.284 204.296 204.308 204.349	99.750 99.750 99.750 99.750 99.750			7.754 7.952 7.945 9.741 7.542	10,164 7,863 6,026 4,316 2,133	117,668 115,565 113,721 113,808 109,425		86,574 88,718 90,574 90,500 94,924	88,71 90,57 90,50	.8 4 0	15,856 5,130 39,551 4,338 6,418		586,604 589,620 625,828 621,106 623,306	641,384 680,935 685,273	83,588 21 51,023 22 86,162 23
: 75 : 76 : 77 : 78 : 79	2025 2026 2027 2028 2029	204,361 204,388 203,323 203,377 203,373	99,750 99,750 94,855 94,855 94,855			7,549 9,574 9,879 9,653 9,760	3,062 3,083 20	107,806 109,324 107,796 107,591 104,635		96,555 95,064 95,527 95,786 98,738	95,06 95,5 6	7 36	17,422 34,832 95,527 95,786 56,379	65,993 467		743,945 905,465 935,725	26 27 28
: 80 : 81 : 82 : 83 : 84	2030 2031 2032 2033 2034	203,385 200,283 200,309 200,336 200,348	94,855 94,855 94,855 94,855 94,855			9,560 12,753 10,074 10,733 10,733		104,414 107,608 104,929 105,588 105,588		98,970 92,675 95,380 94,748 94,760	92,67 95,38	75 80 88	50,293 43,951 3,800 26,842 12,706		954,964 981,197 981,418 982,000 981,898	1,085,881 1,089,681 1,116,522	31 32 33
85 : 86 : 87 : 88 : 89	2035 2036 2037 2038 2039	200,376 200,414 200,426 200,454 200,480	94.855 94.855 94.855 94.855 94.855			10,733 10,733 10,733 10,733 10,733		105,588 105,588 105,588 105,588 105,588		94.787 94.826 94.838 94.866 94.892	94,83 94,86	2 6 38 66	15,559 12,045 38,321 24,585 25,163		994,843 990,637 1,012,251 1,015,916 1,014,695	1,156,831 1,195,152 1,219,737	36 37 38
90 91 92 93 94	2040 2041 2042 2043 2044	193,805 193,759 193,801 193,813 193,838	94,609 94,609 94,609 94,609 94,609			10,733 10,733 10,733 10,733 10,733		105,343 105,343 105,343 105,343 105,343		88,463 88,417 88,458 88,470 88,495	88,41	.7 68 '0	18,676 8,194 13,926 26,392 45,028		1,017,946 1,016,585 1,025,514 1,025,415 1,024,784	1,271,770 1,285,696 1,312,088	41 42 43
: 95 : 96 : 97 : 98 : 99	2045 2046 2047 2048 2049	193,833 193,874 193,887 193,899 193,926	94,609 94,609 94,609 94,609 94,609			10,733 10,733 10,733 10,733 10,733		105,343 105,343 105,343 105,343 105,343		88,491 88,532 88,544 88,556 88,583	88,54 86,55	32 14 56	34,282 15,243 17,105 19,304 4,213		1,024,306 1,024,306 1,024,306 1,024,306	1,423,747	46 47 48
: 100 : 101 : 102 : 103 : 104	2050 2051 2052 2053 2054	193,952 193,964 194,004 194,016 194,042	94,609 94,609 94,609 94,609 94,609			10,733 10,733 10,733 10,733 10,733		105,343 105,343 105,343 105,343 105,343		88,610 88,622 88,661 88,674 88,700		22 51 4	8,716 13,337 26,417 15,340 25,788		1,024,306 1,024,306 1,024,306 1,024,306	1,469,316 1,495,733 1,511,073	51 52 53
: 105 : 106 : 107 : 108 : 109	2055 2056 2057 2058 2059	194,070 194,082 194,109 194,135 194,147	94,609 94,609 94,609 94,609 94,609			10,733 10,733 10,733 10,733 10,733		105,343 105,343 105,343 105,343 105,343		88,727 88,739 88,766 88,793 88,805	88.77 86.7 88.7 88.7 88.75 88.80	19 66 23	17,522 31,943 17,165 48,960 10,949		1,024,306 1,024,306 1,024,306 1,024,306	1,586,326 1,603,491 1,652,451	56 57 58
: 110 : 111 : 112 : 113 : 114	2060 2061 2062 2063 2064	186,803 186,879 186,956 187,046 187,134	94,085 94,077 94,067 94,059 94,052			10,733 10,733 10,733 10,733 10,733	5,124 8,723	104.818 104.810 104.800 109.916 113.507		81,985 82,069 82,156 77,130 73,627	82,06	59 56 30	18,109 35,651 48,117 77,130 73,627	113,880 82,405	1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	1,717,159 1,765,277 1,956,287	61 62 63
: 115 : 116 : 117 : 118 : 119	2065 2066 2067 2068 2069	187,209 187,298 187,384 187,474 187,547	94,043 94,036 94,029 94,020 94,013			10,733 10,733 10,733 10,733 10,733	6,425 3,583 757	111,202 108,352 105,519 104,753 104,746		76,007 78,946 81,865 82,720 82,801	78,94 81,86 82,72	16 55 20	76,007 78,946 47,479 9,389 16,937			2,088,296 2,118,466 2,127,855	66 67 68
: 120 : 121 : 122 : 123 : 124	2070 2071 2072 2073 2074	187,635 187,710 187,799 187,889 187,962	94,006 93,997 93,990 93,982 93,974			10,733 10,733 10,733 10,733 10,733		104,739 104,730 104,723 104,715 104,707		82,697 82,980 83,076 83,175 83,255	82,89 82,99 83,07 83,17 83,29	30 1 6 15	22,580 3,676 5,134 12,431 25,147		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,171,048 2,176,183 2,188,614	71 72 73
: 125 : 126 : 127 : 128 : 129	2075 2076 2077 2078 2079	188,049 188,153 188,232 188,306 180,394	93,967 93,959 93,948 93,941 93,933			10,733 10,733 10,733 10,733 10,733		104,700 104,692 104,681 104,674 104,667		83,349 83,461 83,551 83,632 83,727	83,34 83,44 83,55 83,6 83,7	51 51 32	42.123 17.814 6.994 10.432 23.058		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,255,883 2,273,697 2,280,691 2,291,123 2,314,181	76 77
: 130 : 131 : 132 : 133 : 134	2080 2081 2082 2083 2084	183,377 183,452 183,526 183,626 183,716	93,860 93,852 93,845 93,837 93,829			10,733 10,733 10,733 10,733 10,733		104,593 104,585 104,578 104,570 104,562		78,783 78,867 78,948 79,056 79,154	78,78 78,68 78,99 79,00 79,19	57 18 56	17,594 2,036 4,370 902 21,437		1,024,306 1,024,306 1,024,306 1,024,306 1,024,306	2,338,182 2,339,084 2,360,521	81 82 83
: 135 : 136 : 137 : 138 : 139	2085 2086 2087 2088 2089	183,789 183,718 183,645 183,572 183,501	93,822 93,813 93,806 93,799 93,790			10,733 10,733 10,733 10,733 10,733		104,555 104,546 104,539 104,532 104,523		79,235 79,172 79,106 79,040 78,978	79,2: 79,1: 79,0: 79,0: 78,9:	/2 06 10	3,490 31,855 8,139 30,608 34,890		1.024.306 1.024.306 1.024.306 1.024.306 1.024.306	2,434,612	85 86 87 88 89
: 140	2090	183,428 22,602,871	93,783	221,282		10,733	1,973,499	104,516	1,266	78,912 8,133,210	78,93 8,131,70		35,417 2,504,919			2,504,919	

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APPENDIX F (DETAIL OF OTHER REVENUES AND O&M EXPENSES) March 1991

APPENDIX F (DETAIL OF CITER REVENUES AND CON EXPENSES)

	NHELTINO	OTHER WHISHING TOTAL	NON MRD PUMPING	INDIAN IRRIG	SPA AMORT	CANYON THERRY DEPOTITS	ABOVE ADVERSE PEAKING \$	SPECIAL SALES	TAO OTHER REVENUE	WHITEING SURCHARGE \$	TOTAL OTHER REVENU
PAR	\$ 22.200.200	3,751,677	47,500	19,720	16,163	376,087	3,604,000	7,810,280	6,446,868	1,193,984	48,056,49
1993	25,262,846	3,746,217	47,500	19,720	16,163	376,087	3,604,000	26,266,320	8,660,408	1,191,546	69,190,80
1993	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	26,266,320	6,838,436	1,191,546	72,081,83
1914	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,928,320	11,976,592	1,191,546	71,581,95
1995	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,317,320	9,057,016	1,191,546	71,551,41
1996	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,444,320	8,755,644	1,191,546	71,177,04
1997	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,297,320	8,755,644	1,191,546	71,030,0
1948	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,297,320	8,755,644	1,191,546	71,030,0
1999	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,282,320	8,755,644	1,191,546	71,015,0
2010	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	23,051,320	8,755,644	1,191,546	68,785,0
	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,039,320	8,755,644	1,184,234	68,748,3
2001	25,262,846		47,500	19,720	16,163	376,087	6,317,000	23,083,320	8,755,644	1,184,234	68,792,3
2002		3,729,837	47,500	19,720	16,163	376,087	6,317,010	23,156,320	8,755,644	1,184,234	68,865,3
2003	25,262,846	3,729,837		19,720	16,163	376,087	6,317,000	23,244,320	8,755,644	1,184,234	68,953,3
2004	25,262,846	3,729,837	47,500			376,087	6,317,000	23,347,320	8,755,644	1,184,234	69,056,3
2005	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,479,320	8,755,644	1,184,234	69,188,3
2006	25,262,846	3,729,837	47,500	19,720	16,163		6,317,000	23,200,320	6,755,644	1,184,234	68,909,3
2007	25,262,846	3,729,837	47,500	19,720	16,163	376,087		23,362,320			
2006	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000		6,755,644	1,184,234	69,071,3
2009	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,391,320	8,755,644	1,184,234	69,100,3
2010	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,450,320	8,755,644	1,184,234	69,159,3
2011	25,262,846	3,729,837	47,500	19,720	16,163	376,067	6,317,000	21,508,320	8,755,644	1,184,234	69,217,3
2012	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,552,320	6,755,644	1,184,234	69,261,3
2013	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,611,320	B,755,644	1,184,234	69,320,3
2014	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,640,320	6,755,644	1,184,234	69,349,3
2015	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,684,320	8,755,644	1,184,234	69,393,3
2016	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,743,320	8,755,644	1,184,234	69,452,33
2017	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,787,320	8,755,644	1,184,234	69,496,3
2017	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,860,320	8,755,644	1,184,234	69,569,3
2019	25.262.846	1,729,837	47,500	19,720	16,163	376,087	6,317,000	23,904,320	8,755,644	1,184,234	69,613,3
2020	25.262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,010	20,898,320	8,755,644	1,155,269	66,513,5
2031	25,262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,000	20,971,320	8,755,644	1,155,269	66,586,5
			47,500	19,720	16,163	376,087	6,317,000	21,015,320	8,755,644	1,155,269	66,630,5
2022	25,262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,000	21,059,320	8,755,644	1,155,269	66,674,5
2023	25,262,846	3,664,961		19,720	16,163	376,087	6,317,000	21,132,320	8,755,644	1,155,269	66,747,3
2024	25,262,846	3,664,961	47,500		16,163	376,087	6,317,000	21,176,320	8,755,644	1,135,269	66,791,5
2025	25,262,846	3,664,961	47,500	19,720		376,087	6,317,000	21,235,320	8,755,644	1,155,269	66,850,5
2026	25,262,846	3,664,961	47,500	19,720	16,163	376,067	6,317,000	21,279,320	8,755,644	1,155,269	65,817,2
2027	25,262,846	2,587,661	47,500	19,720	16,163	376,087 376,087	6,317,000	21,367,320	8,755,644	1,155,269	63,905,2
2028	25,262,846	2,587,661	47,500	19,720	16,163			21,411,320	8,755,644		
2029	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000			1,155,269	65,949,2
2030	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,455,320	8,755,644	1,155,269	65,993,2
2031	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,514,320	3,626,389	1,155,269	62,922,9.
2032	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,572,320	5,626,389	1,155,269	62,980,9
2033	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,631,320	5,626,389	1,155,269	63,039,9
2034	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,675,320	5,626,389	1,155,269	63,083,9
2035	25,262,846	2,587,661	47,500	19,720	16,163	376,067	6,317,000	21,734,320	3,626,389	1,255,269	63,142,9
2036	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,807,320	5,626,389	1,155,269	63,215,9
2037	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,851,320	5,626,389	1,155,269	63,259,9
2038	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,910,320	5,626,389	1,155,269	63,318,9
2039	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,968,320	5,626,389	1,155,269	63,376,9
2040	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,213,320	5,626,389	1,121,574	39,512,7
2041	25,262,846	2,512,186	47,500	19,720	16,163	376,067	6,317,000	18,199,320	5,626,389	1,121,574	59,498,7
2042	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,272,320	5,626,389	1,121,574	59,571,7
2043	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,316,320	5,626,389	1,121,374	59,615,7
2044	25,262,846	2,512,166	47,500	19,720	16,163	376,087	6,317,000	18,375,320	5,626,389	1,121,374	39,674,7
2045	25,262,846	2,512,166	47,500	19,720	16,163	376,087	6,317,000	18,419,320	5,626,389	1,121,374	39,718,7
2046	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,492,320	5,626,389	1,121,574	59,791,7
		2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,536,320	5,626,389	1,121,574	39,835,7
2047	25,262,846 25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,580,320	5,626,389	1,121,574	59,879,7
2048			47,500	19,720	16,163	376,087	6,317,000	18,639,320	5,626,389	1,121,574	59,938,7
2049	25,262,846	2,512,186		19,720	16,163	376,087	6,317,000	18,697,320	5,626,389	1,121,574	59,996,7
2050	25,262,846	2,512,166	47,500	19,720		376,087	6,317,000	18,741,320	5,626,389	1,121,574	60,040,7
2051	25,262,846	2,512,186	47,500		16,163		6,317,000	18,815,320	3,626,389	1,121,574	60,114,7
2052	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,859,320	5,626,389	1,121,374	60,158,7
2053	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,917,320	3,626,389	1,121,574	60,216,7
2054	25,262,846	2,512,186	47,500	19,720	16,163	376,087			5,626,389	1,121,574	60,275,7
2055	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,976,320	5,626,389	1,121,574	60,319,7
2056	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	19,020,320			60,378,7
2057	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	19,079,320	5,626,389	1,121,574	
2058	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	19,137,320	3,626,389	1,121,574	60,436,7
2059	25,262,846	2,512,166	47,500	19,720	16,163	376,087	6,317,000	19,181,320	5,626,389	1,121,574	60,480,7
2060	25,262,846	2,350,959	47,500	19,720	16,163	376,087	6,317,000	19,873,000	5,626,389	1,049,593	60,939,2
2061	25,262,846	2,348,390	47,500	19,720	16,163	376,087	6,317,000	20,035,000	3,626,389	1,048,446	61,097,5
2062	25,262,846	2,345,500	47,500	19,720	16,163	376,087	6,317,000	20,211,000	5,626,389	1,047,156	61,269,3
2063	25,262,846	2,342,930	47,500	19,720	16,163	376,087	6,317,000	20,387,000	5,626,389	1,046,009	61,441,6
2064	25,262,846	2,340,682	47,500	19,720	16,163	376,087	6,317,000	20,548,000	5,626,389	1,045,005	61,599,3
2065	25,262,846	2,338,113	47,500	19,720	16,163	376,087	6,317,000	20,709,000	5,626,389	1,043,858	61,756,6
2066	25,262,846	2,335,865	47,500	19,720	16,163	376,087	6,317,000	20,871,000	3,626,389	1,042,854	61,915,4
2067	25,262,846	2,333,616	47,500	19,720	16,163	376,087	6,317,000	21,032,000	5,626,389	1,041,850	62,073,1
	25,262,846	2,331,047	47,500	19,720	16,163	376,067	6,317,000	21,208,000	3,626,389	1,046,703	62,245,4
20r.8		2,328,799	47,500	19,720	16,163	376,087	6,317,000	21,355,000	5,626,389	1,039,700	62,389,3
2069	25,262,846	2,326,551	47,500	19,720	16,163	376,087	6,317,000	21,516,000	3,626,389	1,038,696	62,546,9
2070	25,262,846				16,163	376,087	6,317,000	21,677,000	3,626,389	1,037,549	62,704,
2073	25,262,846	2,323,981	47,500	19,720			6,317,000	21,839,000	5,626,389	1,036,545	62,862,
2072	25,262,846	2,321,733	47,500	19,720	16,163	376,087			5,626,389	1,035,398	63,035,
2075	25,262,846	2,319,164	47,500	19,720	16,163	376,087	6,317,000	22,015,000		1,034,394	63,178,
2074	25,262,846	2,316,916	47,500	19,720	16,163	376,087	6,317,000	22,161,000	5,626,389		
2075	25,262,846	2,314,667	47,500	19,720	16,163	376,087	6,317,000	22,323,000	3,626,389	1,033,390	63,336,
2076	25,262,846	2,312,098	47,500	19,720	16,163	376,087	6,317,000	22,513,000	5,626,389	1,032,243	63,523,
2077	25,262,846	2,308,886	47,500	19,720	16,163	376,087	6,317,000	22,704,000	5,626,389	1,030,810	63,709,
2078	25,262,846	2,306,638	47,500	19,720	16,163	376,087	6,317,000	22,851,000	3,626,389	1,029,806	63,853,
	25,262,846	2,304,390	47,500	19,720	16,163	376,087	6,317,000	23,012,000	5,626,389	1,028,802	64,010,
2079					16,163	376,087	6,317,000	16,647,000	5,626,389	1,016,763	57,613,
2090	25,262,846	2,281,908	47,500	19,720			6,317,000	16,808,010	5,626,389	1,017,618	57,770,
2061	25,262,846	2,279,339	47,500	19,720	16,163	376,087			5,626,389	1,016,614	57,914,
2082	25,262,846	2,277,091	47,500	19,720	16,163	376,057	6,317,000	16,955,000			
2013	25,262,846	2,274,842	47,500	19,720	16,163	376,087	6,317,000	17,131,000	5,626,389	1,013,611	58,087,
2084	25,262,846	2,272,273	47,500	19,720	16,163	376,087	6,317,000	17,307,000	5,626,389	1,014,463	58,259,
2085	25,262,846	2,270,025	47,500	19,720	16,163	376,087	6,317,000	17,453,000	5,626,389	1,013,460	58,402,
	25,262,846	2,267,455	47,500	19,720	16,163	376,087	6,317,000	17,468,000	3,626,389	1,012,313	58,413,4
2066	25,262,846	2,265,207	47,500	19,720	16,163	376,087	6,317,000	17,468,000	5,626,389	1,011,309	58,410,2
	JAN (JAN)	2,262,959	47,500	19,720	16,163	376,087	6,317,000	17,468,000	5,626,389	1,010,305	58,406,
2087											
2067 2068	25,262,846							17,483,000	3,626,389	1,009,158	58,418,2
2087	25,262,846 25,262,846	2,250,390 2,258,142	47,500 47,500	19,720	16,163 16,163	376,087 376,087	6,317,000 6,317,000	17,483,000 17,483,000			58,418,2 58,415,0



YEAR	NITERITY ONLINE	OTHER WHETEING TOTAL	NON MRB PUMPING	ENDIAN IRRIG \$	SPA AMORT.	CANYON FERRY BENEFITS \$	ABOVE ADVERSE PEAKINO \$	SPECIAL SALES	LAO OTHER REVENUE	WHEELINO SURCHARGE	TOTAL OTHER REVENUE \$
1991	22,790,215	3,751,677	47,500	19,720	16,163	376,0R7	3,604,010	8,500,280	8,446,868	1,193,984	48,746,494
1972	25,362,846	3,746,317	47,500	19,720	16,163	376,087	3,604,000	14,649,320	8,660,408	1,191,546	57,573,808
1993	25,362,846	3,746,217	47,500	19,720	16,163	376,0R7	6,317,000	20,501,320	8,838,436	3,193,546	66,316,836
1994	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	22,951,320	8,976,592	1,191,546	68,904,992
1995	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,010	23,992,320	9,057,016	3,193,546	70,026,416
1996	25,262,846	3,746,217	47,500	19,720	16,163	376,067	6,317,000	24,784,320	8,755,644	1,191,546	70,317,044
1997	25,262,846	3,746,217	47,500	19,720	16,163	376,087	6,317,000	25,297,320	8,755,644	1,191,546	71,030,044
1948	25,362,846	3,746,217	47,500	19,720	16,163	376,087	6,317,0.0	25,297,320	8,755,644	1,191,546	71,030,044
1900	25,262,846	3,746,217	47,500	19,720	16,163	376,0H7	6,317,000	25,282,320	6,755,644	1,191,546	71,015,044
2000	25,262,846 25,262,846	3,746,217	47,500 47,500	19,720	16,163	376,087	6,317,040	23,053,320	8,755,644	1,191,546	68,786,044
2001	25,262,846	3,729,837	47,500	19,720 19,720	16,163	376,087 376,087	6,317,000	23,039,320	8,755,644 8,755,644	1,184,234	68,748,331
2012	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,063,320 23,156,320	8,755,644	1,184,234	68,845,351
3004	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6.317.000	23,244,320	6,755,644	1,184,234	68,953,351
2005	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,347,320	8,755,644	1,184,234	69,056,351
2016	25,262,846	3,729,837	47,500	19,720	16,163	376,0R7	6,317,010	23,479,320	8,755,644	1,184,234	69,188,351
2007	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,200,320	8,755,644	1,164,234	68,909,351
20 R	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,362,320	8,755,644	1,184,234	69,071,351
2009	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	25,391,320	8,755,644	1,184,234	69,100,351
2010	25,262,846	3,729,837	47,500	19,720	16,163	376,067	6,317,010	23,450,320	8,755,644	1,184,234	69,159,351
2011	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,0.10	23,508,320	8,755,644	1,184,234	69,217,351
2012	25,262,846	3,729,837	47,500	19,720	16,163	376,067	6,317,000	23,552,320	8,755,644	1,184,234	69,261,351
2013	25,262,846 25,262,846	3,729,837	47,500 47,500	19,720 19,720	16,163 16,163	376,087 376,087	6,317,000	23,611,320 23,640,320	8,755,644 8,755,644	1,184,234	69,320,351 69,349,351
2015	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000 6,317,000	23,684,320	8,755,644	1,184,234	69,393,351
2016	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,743,320	8,755,644	1,184,234	69,452,351
2017	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,010	23,787,320	8,755,644	1,184,234	69,496,351
2018	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,860,320	8,755,644	1,184,234	69,569,351
2019	25,262,846	3,729,837	47,500	19,720	16,163	376,087	6,317,000	23,904,320	8,755,644	1,184,234	69,613,351
2020	25,262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,000	20,898,320	8,755,644	1,155,269	66,\$13,511
2021	25,262,846	3,664,961	47,500	19,720	16,163	376,067	6,317,000	20,971,320	8,755,644	1,155,269	66,586,511
2022	25,262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,000	21,015,320	8,755,644	1,155,269	86,630,511
2023	25,262,846	3,664,961	47,500	19,720	16,163	376,067	6,317,010	21,059,320	8,755,644	1,155,269	66,674,511
3024	25,262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,000	21,132,320	8,755,644	1,155,269	66,747,511
2025	25,262,546	3,664,963	47,500	19,720	16,163	376,067	6,317,040	21,176,320	6,755,644	1,155,269	66,791,511
2026	25,262,846	3,664,961	47,500	19,720	16,163	376,087	6,317,000	21,235,320	8,755,644	1,155,269	66,850,511
2027	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,279,320	6,755,644	1,155,269	65,817,211
2028	25,262,846 25,262,846	2,587,661 2,587,661	47,500 47,500	19,720 19,720	16,163 16,163	376,087 376,087	6,317,000	21,367,320 21,411,320	5,755,644 8,755,644	1,155,269 1,155,269	65,905,211 65,949,211
2030	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,411,320	8,755,644	1,155,269	63,993,211
2031	25.262.846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,514,320	5,626,389	1,155,269	62,922,956
2037	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,372,320	5,626,389	1,155,269	62,980,956
2033	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,631,320	5,626,389	1,155,269	63,039,956
2034	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,675,320	5,626,389	1,155,269	63,083,956
2035	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,734,320	5,626,389	1,155,269	63,142,956
2036	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,807,320	5,626,389	1,155,269	63,215,956
2037	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,010	21,851,320	5,626,389	1,155,269	63,259,956
2038	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,000	21,910,320	5,626,389	1,155,269	63,318,956
2039	25,262,846	2,587,661	47,500	19,720	16,163	376,087	6,317,010	21,968,320	5,626,389	1,155,269	63,376,956
2040	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,213,320	5,626,389	1,121,574	59,512,785
2041	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	15,199,320	5,626,389	1,121,574	59,498,785
2042 2043	25,262,846 25,267,846	2,512,186 2,512,186	47,500 47,500	19,720	16,163	376,087	6,317,000	16,272,320	5,626,389	1,121,574	59,571,785
2043	25.262.846	2,512,186	47,500	19,720 19,720	16,163	376,087 376,087	6,317,000	16,316,320	5,626,389	1,121,574	59,615,785
2045	25,262,846	2,512,186	47,500	19,720	16,163 16,163	376,087	6,317,000 6,317,000	16,375,320 18 419,320	5,626,389 5,626,389	1,121,574	59,674,785
2046	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,492,320	5,626,389	1,121,574	59,718,785
2047	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,536,320	5,626,389	1,121,574	59,791,785 59,835,785
2048	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,580,320	5,626,389	1,121,574	59,879,785
3049	25,262,846	2,512,186	47,500	19,720	16,163	376,067	6,317,000	18,639,320	5,626,389	1,121,574	59,938,785
2050	25,262,846	2,513,186	47,500	19,720	16,163	376,087	6,317,000	18,697,320	5,626,389	1,121,574	59,996,785
2051	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	16,741,320	5,626,389	1,121,574	60,040,785
2052	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,815,320	5,626,389	1,121,574	60,114,785
2053	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,859,320	5,626,389	1,121,574	60,158,785
2054	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,917,320	5,626,389	1,121,374	60,216,785
2055	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	18,976,320	5,626,389	1,121,574	60,275,785
2056	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	19,020,320	5,626,389	1,121,574	60,319,785
2057	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	19,079,320	5,626,389	1,121,574	60,378,785
2058	25,262,846	2,512,186	47,500	19,720	16,163	376,087	6,317,000	19,137,320	5,626,389	1,121,574	60,436,785
2059	25,262,846 25,262,846	2,513,186	47,500	19,720	16,163	376,087	6,317,000	19,181,320	5,626,389	1,121,574	60,480,785
2061	25,262,846	2,350,959 2,348,390	47,500 47,500	19,720 19,720	16,163 16,163	376,087 376,087	6,317,000	19,873,000	5,626,389	1,049,593	60,939,258
2062	25,262,846	2,345,500	47,500	19,720	16,163	376,067	6,317,000	20,035,000 20,211,000	5,626,389	1,048,446	61,097,541
2013	25,262,846	2,342,930	47,500	19,720	16,163	376,087	6,317,000	20,387,000	5,626,389 5,626,389	1,047,158	61,269,360
2064	25,262,846	2,340,682	47,500	19,720	16,163	376,087	6,317,000	20,548,000	5,626,389	1,045,005	61,399,392
204.5	25,262,846	2,338,113	47,500	19,720	16,163	376,087	6,317,000	20,709,000	5,626,389	1,043,858	61,756,675
3066	25,262,846	2,335,865	47,500	19,720	16,163	376,087	6,317,010	20,871,000	5,626,389	1,042,854	61,915,424
2067	25,262,846	2,333,616	47,500	19,720	16,163	376,087	6,317,000	21,032,000	5,626,389	1,041,850	62,073,172
20n8	25,262,846	2,331,047	47,500	19,720	16,163	376,087	6,317,000	21,208,000	5,626,389	1,040,703	62,245,455
3009	25,262,846	2,328,799	47,500	19,720	16,163	376,087	6,317,000	21,355,000	5,626,389	1,039,700	62,389,203
2070	25,262,846	2,326,551	47,500	19,720	16,163	376,087	6,317,000	21,516,000	5,626,389	1,038,696	62,546,951
2071	25,262,846	2,323,961	47,500	19,720	16,163	376,087	6,317,000	21,677,000	5,626,389	1,037,549	62,764,235
2073	25,262,846	2,321,733	47,500	19,720	16,163	376,087	6,317,000	21,839,000	5,626,389	1,036,545	62,862,983
2073	25,262,846	2,519,164	47,500	19,720	16,163	376,087	6,317,010	22,015,000	5,626,389	1,035,398	63,035,267
2074	25,262,846	2,516,916	47,500	19,720	16,163	376,087	6,317,000	22,161,000	5,626,389	1,034,394	63,178,015
2075	25,262,846 25,262,846	2,512,098	47,500 47,500	19,720	16,163	376,0K7	6,317,000	22,323,000	5,626,389	1,033,390	63,336,763
2076	25,262,846			19,720	16,163	376,087	6,317,000	22,513,010	5,626,389	1,032,243	63,523,046
2077	25,262,846	2,306,638	47,500 47,500	19,720 19,720	16,163	376,067 376,087	6,317,000	22,704,000	5,626,389	1,030,610	63,709,401
2079	25,262,846	2,304,390	47,500	19,720	16,163	376,067	6,317,000	22,851,000	5,626,389	1,029,806	63,853,149
2080	25,262,846	2,281,948	47,500	19,720	16,163	376,087	6,317,000	23,012,000 16,647,000	5,626,389	1,028,802	64,010,897 57,613,378
2081	25,262,846	2,279,339	47,500	19,720	16,163	376,087	6,317,000	16,848,000	5,626,389 5,626,389	1,018,765	57,613,378 57,770,662
3082	25,262,846	2,277,091	47,500	19,720	16,163	376,087	6,317,000	16,955,000	5,626,389	1,016,614	57,914,410
2013	25,262,846	2,274,842	47,500	19,720	16,163	376,087	6,317,000	17,131,000	5,626,389	1,015,611	58,087,158
3014	25,262,846	2,272,273	47,500	19,720	16,163	376,067	6,317,000	17,307,000	5,626,389	1,014,463	58,259,441
2085	25,262,846	2,270,025	47,500	19,720	16,163	376,087	6,317,000	17,453,010	5,626,389	1,013,460	58,402,190
2086	25,262,846	2,267,455	47,500	19,720	16,163	376,087	6,317,000	17,468,000	5,626,389	1,012,313	58,413,473
2007	25,262,846	2,265,307	47,500	19,720	16,163	376,087	6,317,000	17,468,000	5,626,389	1,011,309	58,410,221
3068	25,262,846	2,262,959	47,500	19,720	16,163	376,067	6,317,000	17,468,000	5,626,389	1,010,305	58,406,969
2089	25,262,846	2,260,390	47,500	19,720	16,163	376,087	6,317,000	17,483,000	5,626,389	1,009,158	58,418,253
2090	25,262,846	2,258,142	47,500	19,720	16,163	376,087	6,317,000	17,483,000	5,626,389	1,008,154	58,415,001
TOTAL	2,523,811,969	289,393,154	4,750,000	1977.000	1.616.300	17 (00 70	434 924 000	3.001.000.000	(88 818 717	111	4.244.77
10174	LJ-LJ-011, W/Y	201,013,134	4,730,000	1,972,000	1,616,300	37,608,700	626,274,000	2,081,002,040	688,010,200	111,885,779	6,366,324,142



	WESTERN				BILLINGS	AREA	LAO	BUTTALO	TOTAL
	BAO	1.40	BUREAU			ONTERHA		BILL	OAM
	DAM	OAM	OAM	OAM	EXPENSE 3	DISCOUNT	WHEELING	PAYMENT	EXPENSE 3
YPAR 1991	36,624,010	21,051,900	9,329,053	26,130,000	3,600,000	3,100,010	2,343,400	2,520,684	108,699,037
1992	39,424,000	31,753,640	10,346,896	23,946,000	3,592,650	3,089,588	2,345,116	2,570,684	109,068,573
1973	40,245,000	22,032,861	9,680,943	19,700,000	3,592,650	5,089,588 5,089,588	2,346,858	2,666,499	105,354,402
1994	41,030,000	22,307,367	9,690,828 9,164 405	19,700,000	3,592,650 3,592,650	5,089,588	2,350,420	2.666,499	106,993,072
1995	41,832,000	22,597,509	8,713,827	19,700,000	3,592,650	3,089,588	2,350,420	2,666,499	95,260,782
1996	34 897,000	18,250,797	8,713,827	19,700,000	3,592,650	3,089,588	2,350,420	2,666,499	95,260,782
1916	34,897,000	18,250,797	8,713,827	19,700,000	3,592,650	5,089,588	2,350,420	2,666,499 2,666,499	95,260,782 95,260,782
5ano	34,897,000	18,250,797	8,713.827	19,700,000	3,597,650 3,592,650	5,089,588 3,089,588	2,350,420	2,666,499	95,260,782
3001	34,897,010	18,250,797 18,250,797	8,713,827 8,713,827	19,700,010	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2003	34,897,010	18,250,797	8,713 827	19,700,010	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2003	34,897,000	18,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499 3,666,499	95,207,497 95,207,497
2004	34,897,000	18,250,797	8,713,827	19,700,000	3,570,602	3,058,352 3,058,352	2,350,420 2,350,420	2,666,499	95,207,497
2005	34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2006 2007	34,897,000	18.250,797	B,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2008	34,897,000	18,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2009	34,897,000	18,250,797	8,713,827	19,700,0110	3,570,602	5,058,352	2,350,420	2,666,499 2,666,499	95,207,497 95,207,497
2010	34,897,000	18,250,797	8,713,827	19,700,000 19,700,000	3,570,602 3,570,602	5,058,352 5,058,352	2,350,420	2,666,499	95,207,497
2011	34,897,010	18,250,797	8,713,827 8,713,827	19,700,000	3,570,602	3,058,352	2,350,420	2,666,499	95,207,497
2013	34,897,000	18,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,479	95,207,497
2014	34,897,000	18,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2015	34,897,000	18,250,797	B,713,827	19,700,000	3,570,602	5,058,352 5,058,352	2,350,420 2,350,420	2,666,499 3,666,499	95,207,497 95,207,497
2016	34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2017 2018	34,897,000 34,897,000	18,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	95,207,497
2019	34,897,000	18,250,797	8,713.827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,497	95,207,497
2020	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,499 2,666,499	94,996,449 94,996,449
2021	34,897,000	18,250,797	8,713,827	19,700,000 19,700,000	3,483,271 3,483,271	4,934,634 4,934,634	2,350,420	2,666,499	94,996,449
2023	34,897,000 34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,499	94,996,449
2024	34,897,000	18,250,797	8,713,827	19,700,010	3,483,271	4,934.634	2,350,420	2,666,499	94,996,449
2025	34,897,010	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,499	94,996,449
2026	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420 121,420	2,666,499 0	94,996,449 90,100,950
2027	34,897,000 34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	3,483,271 3,483,271	4,934,634 4,934,634	121,420	0	90,100,950
2028	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	90,100,950
2030	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	90,100,950
2031	34,897,010	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	90,100,950
2032	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634 4,934,634	121,420 121,420	0	90,100,950 90,100,950
203.3	34,897,000	18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	3,483,271 3,483,271	4,934,634	121,420	0	90,100,950
2034 2035	34,897,000 34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	90,100,950
2036	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	90,100,950
2037	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	90,100,950 90,100,950
2038	34,897,000	18,250,797	8,713,827	19,700,000	3,483,271	4,934,634 4,934,634	121,420	0	90,100,950
2039 2040	34,897,000 34,897,000	18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	1,381,674	4,790,705	121,420	0	89,855,423
2041	34,897,000	18,250,797	8,713,827	19,700,000	3,381,634	4,790,705	121,420	0	89,855,423
2042	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2043	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423 89,855,423
2044	34,897,000	18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	3,381,674 3,381,674	4,790,705 4,790,705	121,420 121,420	0	89,855,423
2045 2046	34,897,000 34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2047	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2046	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2049	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705 4,790,705	121,420 121,420	0	89,855,423 89,855,423
2050 2051	34,897,000 34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2052	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2053	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	D	89,855,423
2054	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423 89,855,423
2053	34,897,000	18,250,797	8,713,827 8,713,827	19,700,000	3,381,674 3,381,674	4,790,705 4,790,705	121,420 121,420	0	89,855,423
2056	34,897,000 34,897,000	18,250,797 18,250,797	8,713,827	19,700,000	3,361,674	4,790,705	121,420	D	89,855,423
2058	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2059	34,897,000	18,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	89,855,423
2060	34,897,010	18,250,797	8,713,827	19,700,000 19,700,000	3,164,645	4,483,247 4,478,348	121,420 121,420	0	89,330,936 89,322,578
2061 2062	34,897,000 34,897,010	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000	3,157,2%	4,472,835	121,420	0	89,313,175
2063	34,897,000	18,250,797	8,713,827	19,700,000	3,153,837	4,467,936	121,420	0	89,304,817
2064	34,897,000	18,250,797	8,713,827	19,700,000	3,150,811	4,463,648	121,420	0	89,297,503
2063	34,897,000	18,250,797	8,713,827	19,700,000	3,147,352	4,458,749 4,454,461	121,420 121,420	0	89,289,145 89,281,821
20r6 2067	34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000	3,141,299	4,450,174	121,420	0	89,274,518
2067 2018	34,897,000	18,250,797	8,713,827	19,700,000	3,137,841	4,445,274	121,420	0	89,266,159
2019	34,897,000	18,250,797	8,713,827	19,700,000	3,134,814	4,440,987	121,420	0	89,258,846
2070	34,897,000	18,250,797	8,713,827	19,700,000	3,131,788	4,436,700	121,420	D 0	89,251,532 89,243,174
2071	34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	3,128,330	4,431,600 4,427,513	121,420 121,420	0	89,235,860
2072 2073	34,897,000 34,897,000	18,250,797	8,713,827	19,700,000	3,121,845	4.422,613	121,420	0	89,227,502
2074	34,897,000	18,250,797	8,713,827	19,700,000	3,118,818	4,418,326	121,420	0	89,220,188
2075	34,897,000	18,250,797	8,713,827	19,700,000	3,115.792	4 414,039	121,420	0	89,212,875 89,204,516
2076	34,897,000	18,250,797	8,713,827	19,700,000	3,112,333	4,409,139 4,403,014	121,420 121,420	0	89,204,516 89,194,068
2077	34,897,000	18,250,797	8,713,827 8,713,827	19,700,000 19,700,000	3,104,984	4,398,727	121,420	0	89,186,755
2079	34,897,000	18,250,797	8,713,827	19,700,000	3,101,957	4,394,440	121,420	0	89,179,441
2040	34,897,000	18,250,797	8,713,827	19,700,000	3,071,694	4,351,567	121,420	0	89,106,306
2081	34,897,010	18,250,797	8,713,827	19,700,000	3,068,236	4,346,667	121,420	0	89,097,947
20K2	34,897,010	18,250,797	8,713,827	19,700,000	3,065,210	4,342,380	121,420 121,420	0 D	89,090,634 89,083,320
2053	34,897,000	18,250,797 18,250,797	8,713,827 8,713,827	19,700,000	3,062,183	4,333,193	121,420	0	89,074,962
2064 2065	34,897,000	18,250,797	8,713,827	19,700,000	3,055,698	4,328,996	121,420	0	89,067,648
30%	34,897,000	15,250,797	8,713,827	19,700,000	3,052,240	4,324,006	121,420	0	89,059,290
2087	34,897,000	18,250,797	8,713,827	19,750,000	3,049,213	4,319,719	121,420	0 D	89,051,976 89,044,663
2010	34,897,000	18,250,797	8,713,827 8,713,827	19,700,000	3,046,187	4,315,432 4,310,532	121,420 121,420	0	89,036,304
2019	34,897,000	18,250,797	8,713,827	19,700,000	3,039,702	4,306,245	121,420	0	89,028,991
art)	J. 327,324								
TOTAL	3,516,420,000	1,843,568,992	876,025,692	1,940,676,00	00 337,348,5	77 477,910,48	4 92,368,30	95,702,33	4 9,220,020,399



IVAR		4 (DAM	OAM	OAM	EXCHENSE	DISCOUNT	WHITTING		CSRS	INCREASE	EXPIN:
1992 19,474, 180 1995 41,432, 180 1995 41,432, 180 1995 41,432, 180 1995 41,432, 180 1996 44,897,010 1996 34,897,010 3003 34,897,010		- 21	1,051,900	9,329,053	\$ 26,130 (41)	1,6(0,(10)	\$ 5,100,0(4)	2,343,4(1)	2,520,684	0	0	108,6/9,0
1994 41,032,010 1996 34,897,010 1998			1,753,640	10,346,876	23,946,(14)	1,572,650	5 189,588	2.345 136	2.5 20.684	1.88000	4,776,010	115.724.5
1995							5.089.588	2,346,858	2,666,499	1,786,010		
1985 41,832,010 1986 34,877,010 1988 34,877,010 2010 34,877,010 2011 34,877,010 2013 34,877,010 2013 34,877,010 2013 34,877,010 2014 34,877,010 2013 34,877,010 2016 34,877,010 2017 34,877,010 2018 34,877,010 2011 34,877,010 2011 34,877,010 2012 34,877,010 2013 34,877,010 2014 34,877,010 2015 34,877,010 2016 34,877,010 2017 34,877,010 2018 34,877,010 2018 34,877,010 2019 34,877,010 2019 34,877,010 2010 34,877,010 2011 34,877,010 2011 34,877,010 2012 34,877,010 2013 34,877,010 2014 34,877,010 2015 34,877,010 2016 34,877,010 2017 34,877,010 2018 34,877,010 2019 34,877,01			2,032,841	9,680,945	19,700,0(4)	3,592,650	5.089,588			1,786,010	4,570,0H)	111,710,4
1996 M. 1977, 100 1997 M. 1977, 100 1998 M. 1977, 100 1999 M. 1977, 100			2,307,367	9,690,828	19,700,000	3,592,650	-1-	2,348,626	2,666 499		4,607,000	112,724,5
1997 34,877,000 1998 34,877,000 2003 34,877,000 2004	1.32,010	110 22	2,597,500	9,164 405	19,700,000	3,592,650	5,089,588	2,350,420	2,666,499	1,598,000	4,619,000	113,210,0
1996 M. 1877, 0.00 2004 M. 1877, 0.00 2006 M. 1877, 0.00 2006 M. 1877, 0.00 2006 M. 1877, 0.00 2016 M. 1877, 0.00 2017 M. 1877, 0.00 2018 M. 1877, 0.00 2019 M. 1877, 0.0	897,000	00 18	3,250,797	8,713,827	19,700,000	3,592,650	5,089,588	2,350,420	2,666,499	3,504 000	15,463,000	112,227,
1999 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2016 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2011 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2015 M. 1977,000 2016 M. 1977,000 2017 M. 1977,000 2018 M. 1977,000 2019 M. 1977,000 2010 M. 1977,000 2011 M. 1977,000 2012 M. 1977,000 2013 M. 1977,000 2014 M. 1977,000 2015	897,000	ino 18	1,250,797	8,713,827	19,700,000	3,592,650	5,089,588	2,350,420	2,666,499	1,410,000	4,754,000	101,424,
2000 M. 1977, 0.00 2001 M. 1977, 0.00 2003 M. 1977, 0.00 2003 M. 1977, 0.00 2004 M. 1977, 0.00 2006 M. 1977, 0.00 2007 M. 1977, 0.00 2011 M. 1977, 0.00 2012 M. 1977, 0.00 2013 M. 1977, 0.00 2014 M. 1977, 0.00 2015 M. 1977, 0.00 2016 M. 1977, 0.00 2017 M. 1977, 0.00 2018 M. 1977, 0.00 2019 M. 1977, 0.00 2010 M. 1977, 0.00 2011 M. 1977, 0.00 2012 M. 1977, 0.00 2013 M. 1977, 0.00 2014 M. 1977, 0.00 2015 M. 1977, 0.00 2016 M. 1977, 0.00 2017 M. 1977, 0.00 2018 M. 1977, 0.00 2019 M. 1977, 0.00 2010 M. 1977, 0.00 2011 M. 1977, 0.00 2012 M. 1977, 0.00 2013 M. 1977, 0.00 2014 M. 1977, 0.00 2015 M. 1977, 0.00 2016 M. 1977, 0.00 2017 M. 1977, 0.00 2018 M. 1977, 0.00 2019 M. 1977, 0.00	897,000	100 18	1,250,797	8,713,827	19,700,000	3,592,650	5,089,588	2,350,420	2,666,499	1,316,000	4,754,010	101,330,
2000 M. 1977, 0.00 2001 M. 1977, 0.00 2003 M. 1977, 0.00 2003 M. 1977, 0.00 2004 M. 1977, 0.00 2006 M. 1977, 0.00 2007 M. 1977, 0.00 2011 M. 1977, 0.00 2012 M. 1977, 0.00 2013 M. 1977, 0.00 2014 M. 1977, 0.00 2015 M. 1977, 0.00 2016 M. 1977, 0.00 2017 M. 1977, 0.00 2018 M. 1977, 0.00 2019 M. 1977, 0.00 2010 M. 1977, 0.00 2011 M. 1977, 0.00 2012 M. 1977, 0.00 2013 M. 1977, 0.00 2014 M. 1977, 0.00 2015 M. 1977, 0.00 2016 M. 1977, 0.00 2017 M. 1977, 0.00 2018 M. 1977, 0.00 2019 M. 1977, 0.00 2010 M. 1977, 0.00 2011 M. 1977, 0.00 2012 M. 1977, 0.00 2013 M. 1977, 0.00 2014 M. 1977, 0.00 2015 M. 1977, 0.00 2016 M. 1977, 0.00 2017 M. 1977, 0.00 2018 M. 1977, 0.00 2019 M. 1977, 0.00			1,250,797	8,713,827	19,700,000	3,592,650	5,089,588	2.350,420	2,666,499	1,222,000	4,754,010	101,236,
2011 M. 1977 0.00			1,250,797	8,713,827	19,700,000	3,592,650	5,089,588	2,350,420	2,666,499	1,128,000	4.754,010	101,142.
2002 M. 1877, 1000 2003 M. 1877, 1000 2004 M. 1877, 1000 2005 M. 1877, 1000 2006 M. 1877, 1000 2016 M. 1877, 1000 2016 M. 1877, 1000 2011 M. 1877, 1000 2012 M. 1877, 1000 2013 M. 1877, 1000 2014 M. 1877, 1000 2015 M. 1877, 1000 2016 M. 1877, 1000 2017 M. 1877, 1000 2018 M. 1877, 1000 2019 M. 1877, 1000 2010 M. 1877, 1000 2011 M. 1877, 1000 2012 M. 1877, 1000 2013 M. 1877, 1000 2014 M. 1877, 1000 2015 M. 1877, 1000 2016 M. 1877, 1000 2017 M. 1877, 1000 2018 M. 1877, 1000 2019 M. 1877, 1000					19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	1,034,000	4,754,000	100,995,
2013 M.877,000 2014 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2017 M.877,000 2016 M.877,000 2011 M.877,000 2011 M.877,000 2012 M.877,000 2013 M.877,000 2014 M.877,000 2015 M.877,000 2016 M.877,000 2017 M.877,000 2018 M.877,000 2019 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2029 M.877,000 2029 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M			L <u>2</u> 50,797	8,713,827			5.058.352	2,350,420				100,901
2004 M. 1877, JACO 2016 M. 1877, JACO 2016 M. 1877, JACO 2016 M. 1877, JACO 2016 M. 1877, JACO 2011 M. 1877, JACO 2012 M. 1877, JACO 2013 M. 1877, JACO 2013 M. 1877, JACO 2014 M. 1877, JACO 2015 M. 1877, JACO 2016 M. 1877, JACO 2017 M. 1877, JACO 2018 M. 1877, JACO 2019 M. 1877, JACO 2010 M. 1877, JACO 2011 M. 1877, JACO 2012 M. 1877, JACO 2013 M. 1877, JACO 2014 M. 1877, JACO 2015 M. 1877, JACO 2016 M. 1877, JACO 2017 M. 1877, JACO 2018 M. 1877, JACO 2019 M. 1877, JACO			1,250,797	8,713,827	19,700,000	3,570,602	0,-0		2,666,499	940,040	4 754,000	
2006 M. 1877 A. 100	897,000	18	3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	846,000	4,754,010	100,807,
2006 M. 1877 (0.00 2008 M. 1877 (0.00 2008 M. 1877 (0.00 2009 M. 1877 (0.00 2011 M. 1877 (0.00 2011 M. 1877 (0.00 2012 M. 1877 (0.00 2013 M. 1877 (0.00 2014 M. 1877 (0.00 2015 M. 1877 (0.00 2016 M. 1877 (0.00 2017 M. 1877 (0.00 2018 M. 1877 (0.00 2019 M. 1877 (0.00	897,000	100 18	1,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	752,600	4,754,0(x)	100,713,
2016 M.877,000 2018 M.877,000 2011 M.877,000 2011 M.877,000 2012 M.877,000 2013 M.877,000 2014 M.877,000 2015 M.877,000 2016 M.877,000 2016 M.877,000 2017 M.877,000 2017 M.877,000 2018 M.877,000 2019 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2029 M.877,000 2020 M.877,000 2020 M.877,000 2020 M.877,000 2020 M.877,000 2020 M	897,000	100 18	1,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	658,010	4,754,010	100,619,
2016			3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	564,1110	4,754,010	100,525
2008 M.	297.000		1,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,479	470,000	4,754,010	100,431,
3009 31,877,000 3010 31,877,000 3011 31,877,000 3012 31,877,000 3012 31,877,000 3015 31,877,000 3015 31,877,000 3015 31,877,000 3017 31,877,000 3020 31,877,000 3021 31,877,000 3022 31,877,000 3023 31,877,000 3022 31,877,000 3023 31,877,000 3022 31,877,000 3023 31,877,000 3023 31,877,000 3023 31,877,000 3023 31,877,000 3024 31,877,000 3023 31,877,000 3024 31,877,000 3025 31,877,000 3026 31,877,000 3021 31,877,000 3023 31,877,000 3034 31,877,000 3034 31,877,000 3042			1 250 797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	376.000	4,754,000	100,337
2010 M.897 200			-pare eq		19,700,000		5,058,352	2,350,420	2,666,499	282.100	4,754,000	100,243,
2011 M.877,000 2013 M.877,000 2014 M.877,000 2015 M.877,000 2016 M.877,000 2016 M.877,000 2017 M.877,000 2018 M.877,000 2019 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2020 M.877,000 2020 M.877,000 2020 M.87			1,250,797	8,713,827		3,570,602						
2012 M. 1877, 1000 2013 M. 1877, 1000 2014 M. 1877, 1000 2015 M. 1877, 1000 2016 M. 1877, 1000 2017 M. 1877, 1000 2012 M. 1877, 1000 2021 M. 1877, 1000 2022 M. 1877, 1000 2023 M. 1877, 1000 2024 M. 1877, 1000 2025 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000 2021 M. 1877, 1000 2022 M. 1877, 1000 2023 M. 1877, 1000 2024 M. 1877, 1000 2025 M. 1877, 1000 2026 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000 2021 M. 1877, 1000 2022 M. 1877, 1000 2023 M. 1877, 1000 2024 M. 1877, 1000 2025 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000 2021 M. 1877, 1000 2024 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000 2021 M. 1877, 1000 2022 M. 1877, 1000 2024 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000 2021 M. 1877, 1000 2021 M. 1877, 1000 2022 M. 1877, 1000 2023 M. 1877, 1000 2024 M. 1877, 1000 2025 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000 2021 M. 1877, 1000 2021 M. 1877, 1000 2022 M. 1877, 1000 2023 M. 1877, 1000 2024 M. 1877, 1000 2025 M. 1877, 1000 2026 M. 1877, 1000 2027 M. 1877, 1000 2028 M. 1877, 1000 2029 M. 1877, 1000 2020 M. 1877, 1000			3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	188,000	4 754,000	100,149,
2013 M.877,000 2014 M.877,000 2015 M.877,000 2016 M.877,000 2017 M.877,000 2018 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2024 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.87	897,000	18	3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	94,000	4,754,000	100,055,
2014 M.877,000 2015 M.877,000 2016 M.877,000 2017 M.877,000 2017 M.877,000 2018 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.877,000 2020 M.877,000 2021 M.877,000 2020 M.877,000 2021 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M.877,000 2029 M.877,000 2020 M.877,000 2021 M.877,000 2022 M.877,000 2023 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2029 M	897,000	100 38	3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	0	4,754,000	97,961,4
2015 M.1877 0.00	897,000	100 18	3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	D	4,754,010	99,961,4
2015 M.1877 0.00			1,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	0	4,754,000	99,961,4
2016 M. 1977 DOLD						3,570,602	5,058,352	2,350,420	2,666,497	0	4,754,0ti0	99,961,4
2017 M.1871,000 2018 M.1871,000 2019 M.1871,000 2021 M.1871,000 2022 M.1871,000 2023 M.1871,000 2024 M.1871,000 2025 M.1871,000 2026 M.1871,000 2027 M.1871,000 2028 M.1871,000 2029 M.1871,000 2020 M.1871,000 2021 M.1871,000 2021 M.1871,000 2022 M.1871,000 2023 M.1871,000 2024 M.1871,000 2025 M.1871,000 2026 M.1871,000 2026 M.1871,000 2027 M.1871,000 2028 M.1871,000 2029 M.1871,000 2020 M.1871,000 2021 M.1871,000 2022 M.1871,000 2023 M.1871,000 2024 M.1871,000 2025 M.1871,000 2026 M.1871,000 2027 M.1871,000 2028 M.1871,000 2029 M.1871,000 2020 M.1871,000 2021 M.1871,000 2021 M.1871,000 2021 M.1871,000 2022 M.1871,000 2023 M.1871,000 2024 M.1871,000 2024 M.1871,000 2025 M.1871,000 2026 M.1871,000 2027 M.1871,000 2028 M.1871,000 2029 M.1871,000 2020 M.1871,000 2021 M.1871,000 2021 M.1871,000 2022 M.1871,000 2023 M.1871,000 2024 M.1871,000 2025 M.1871,000 2026 M.1871,000 2027 M.1871,000 2027 M.1871,000 2028			3,250,797	8,713,827	19,700,000			2,350,420				
2018 M.897,000 2019 M.897,000 2019 M.897,000 2021 M.897,000 2022 M.897,000 2022 M.897,000 2023 M.897,000 2023 M.897,000 2025 M.897,000 2026 M.897,000 2027 M.897,000 2028 M.897,000 2029 M.897,000 2020 M.897,000 2021 M.897,000 2021 M.897,000 2022 M.897,000 2023 M.897,000 2024 M.897,000 2024 M.897,000 2025 M.897,000 2026 M.897,000 2026 M.897,000 2027 M.897,000 2028 M.897,000 2029 M.897,000 2021 M.897,000 2021 M.897,000 2022 M.897,000 2023 M.897,000 2024 M.897,000 2026 M.897,000 2026 M.897,000 2027 M.897,000 2028 M.897,000 2029 M.897,000 2029 M.897,000 2020 M.897,000 2021 M.897,000 2021 M.897,000 2022 M.897,000 2023 M.897,000 2024 M.897,000 2025 M.897,000 2026 M.897,000 2027 M.897,000 2028 M			8,250,797	8,713,827	19,700,000	3,570,602	5,058,352		2,666,499	0	4 754,010	99,961,4
2019	897,000	18	1,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,497	0	4,754,010	99,961,4
2019	897,000	000 18	3,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	0	4,734,000	99,961,4
1000 10,177,00			1,250,797	8,713,827	19,700,000	3,570,602	5,058,352	2,350,420	2,666,499	0	4,754,000	99,961,4
2021 M.897,000 2022 M.897,000 2023 M.897,000 2024 M.897,000 2025 M.897,000 2026 M.897,000 2027 M.897,000 2028 M.897,000 2029 M.897,000 2020 M.897,000 2021 M.897,000 2020 M.897,000 2021 M.897,000 2021 M.897,000 2022 M.897,000 2024 M.897,000 2025 M.897,000 2026 M.897,000 2026 M.897,000 2026 M.897,000 2027 M.897,000 2026 M.897,000 2027 M.897,000 2028 M.897,000 2029 M.897,000 2020 M.897,000 2021 M.897,000 2022 M.897,000 2023 M.897,000 2024 M.897,000 2024 M.897,000 2025 M.897,000 2026 M.897,000 2026 M.897,000 2026 M.897,000 2026 M.897,000 2026 M.897,000 2026 M.897,000 2027 M.897,000 2028 M.897,000 2029 M			1,250,797	8,713,827	19.700.000	3,483,271	4,934,634	2,350,420	2,666,499	0	4,754,0ti0	99,750,4
1022 M.877,000								2,350,420	2,666,499	0	4,754,000	99,750,4
2023 M. 877,000 2024 M. 877,000 2025 M. 877,000 2026 M. 877,000 2027 M. 877,000 2029 M. 877,000 2020 M. 877,000 2021 M. 877,000 2021 M. 877,000 2021 M. 877,000 2021 M. 877,000 2022 M. 877,000 2023 M. 877,000 2024 M. 877,000 2025 M. 877,000 2026 M. 877,000 2026 M. 877,000 2026 M. 877,000 2027 M. 877,000 2026 M. 877,000 2027 M. 877,000 2028 M. 877,000 2029 M. 877,000 2020 M. 877,000 2021 M. 877,000 2021 M. 877,000 2022 M. 877,000 2023 M. 877,000 2024 M. 877,000 2026 M. 877,000 2026 M. 877,000 2027 M. 877,000 2028 M. 877,000 2029 M. 877,000 2021 M. 877,000 2021 M. 877,000 2022 M. 877,000 2023 M. 877,000 2024 M. 877,000 2025 M. 877,000 2026 M. 877,000 2027 M. 877,000 2027 M. 877,000 2028 M. 877,000 2029 M. 877,000 2027 M. 877,000 2029 M. 877,00			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634				4,754,000	
2024 M. 877,000 2025 M. 877,000 2025 M. 877,000 2026 M. 877,000 2027 M. 877,000 2028 M. 877,000 2020 M. 877,000 2021 M. 877,000 2022 M. 877,000 2023 M. 877,000 2024 M. 877,000 2025 M. 877,000 2026 M. 877,000 2027 M. 877,000 2028 M. 877,000 2028 M. 877,000 2029 M. 877,000 2020 M. 877,000 2021 M. 877,000 2022 M. 877,000 2023 M. 877,000 2024 M. 877,000 2025 M. 877,000 2026 M. 877,000 2027 M. 877,000 2028 M. 877,000 2029 M. 877,000 2020 M. 877,000 2021 M. 877,000 2021 M. 877,000 2021 M. 877,000 2022 M. 877,000 2023 M. 877,000 2024 M. 877,000 2025 M. 877,000 2026 M. 877,000 2027 M. 877,000 2028 M. 877,000 2029 M. 877,000 2020			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,6/16,499	0		99,750,4
2025 M.877,000			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,499	0	4,754,010	99,750,4
2006 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2029 M.877 (0.00 2021 M.877 (0.00 2021 M.877 (0.00 2021 M.877 (0.00 2021 M.877 (0.00 2023 M.877 (0.00 2024 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2027 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2024 M.877 (0.00 2024 M.877 (0.00 2024 M.877 (0.00 2025 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2027 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2020 M.877 (0.00 2021 M.877 (0.00 2022 M.877 (0.00 2023 M.877 (0.00 2024 M.877 (0.00 2025 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2027 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2029 M.877 (0.00 2029 M.877 (0.00 2027	897,000	000 18	8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,497	0	4,754,000	99,750,4
2006 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2029 M.877 (0.00 2021 M.877 (0.00 2021 M.877 (0.00 2021 M.877 (0.00 2021 M.877 (0.00 2023 M.877 (0.00 2024 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2027 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2024 M.877 (0.00 2024 M.877 (0.00 2024 M.877 (0.00 2025 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2027 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2020 M.877 (0.00 2021 M.877 (0.00 2022 M.877 (0.00 2023 M.877 (0.00 2024 M.877 (0.00 2025 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2026 M.877 (0.00 2027 M.877 (0.00 2028 M.877 (0.00 2029 M.877 (0.00 2029 M.877 (0.00 2029 M.877 (0.00 2027	897,000		8.250.797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,479	0	4,754,000	99,750,4
2027 34,877,000 2028 34,877,000 2020 34,877,000 2021 34,877,000 2021 34,877,000 2023 34,877,000 2024 34,877,000 2025 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2026 34,877,000 2027 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2029 34,877,000 2020 34,877,000 2021 34,877,000 2022 34,877,000 2023 34,877,000 2024 34,877,000 2027 34,877,000 2028 34,877,000 2029 34,877,000 2020 34,877,000 2021 34,877,000 2021 34,877,000 2021 34,877,000 2021 34,877,000 2021 34,877,000 2021 34,877,000 2022 34,877,000 2023 34,877,000 2024 34,877,000 2025 34,877,000 2026 34,877,000 2027 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028 34,877,000 2028			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	2,350,420	2,666,499	0	4,754,000	99,750,4
1222 M. 157 100					19,700,000	3,483,271	4,934,634	121,420	0	0	4,734,000	94,854.9
2029			8,250,797	8,713,827					0	0		
3010 M.877,000 2031 M.877,000 2031 M.877,000 2032 M.877,000 2033 M.877,000 2033 M.877,000 2034 M.877,000 2035 M.877,000 2036 M.877,000 2036 M.877,000 2036 M.877,000 2044 M.877,000 2044 M.877,000 2044 M.877,000 2045 M.877,000 2046 M.877,000 2048 M.877,000 2048 M.877,000 2049 M.877,000 2058 M.877,000 2059 M.877,000 2057 M.877,000			R,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	-		4,754,0xi0	94,854,9
2011 M.897,000 2012 M.897,000 2013 M.897,000 2014 M.897,000 2015 M.897,000 2016 M.897,000 2016 M.897,000 2017 M.897,000 2019 M.897,000 2019 M.897,000 2019 M.897,000 2019 M.897,000 2014 M.897,000 2014 M.897,000 2014 M.897,000 2015 M.897,000 2016 M.897,000 2016 M.897,000 2016 M.897,000 2017 M.897,000 2018 M.897,000 2018 M.897,000 2019 M.897,000 2017 M.897,000 2019 M	897,000	000 18	8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,9
2012 M.897 (AD 2013 M.897 (AD 2013 M.897 (AD 2015 M.897 (AD 2015 M.897 (AD 2015 M.897 (AD 2016 M.897 (AD 2017 M.897 (AD 2016 M.897 (AD 2017 M.897 (AD 2018 M.897 (AD 2014 M.897 (AD 2014 M.897 (AD 2015 M.897 (AD 2016 M.897 (AD 2017 M.897 (AD 2018 M.897 (AD 2019 M.89	897,000	000 18	8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,9
2012 M.877,000 2024 M.877,000 2025 M.877,000 2026 M.877,000 2027 M.877,000 2026 M.877,000 2027 M.877,000 2028 M.877,000 2028 M.877,000 2028 M.877,000 2029 M.877,000 2020 M.87	897.000	000 15	8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121.420	0	0	4,754,000	94,854.9
2033 M.877,003 2034 M.877,003 2035 M.877,003 2036 M.879,003 2037 M.879,003 2039 M.879,003 2039 M.879,003 2040 M.879,003 2041 M.879,003 2042 M.879,003 2043 M.879,003 2044 M.879,003 2045 M.879,003 2046 M.879,003 2046 M.879,003 2047 M.879,003 2048 M.879,003 2049 M.879,003 2049 M.879,003 2049 M.879,003 2050 M.879,003 2051 M.879,003 2052 M.879,003 2053 M.879,003 2054 M.879,003 2054 M.879,003 2054 M.879,003 2055 M.879,003 2056 M.879,003 2057 M.879,003 2058 M.879,003 2059 M.879,003 2059 M.879,003 2051 M.879,003 2052 M.879,003 2053 M.879,003 2054 M.879,003 2054 M.879,003 2054 M.879,003 2057 M			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854.9
2014 M.877,000 2015 M.879,000 2017 M.879,000 2017 M.879,000 2017 M.879,000 2014 M.879,000 2014 M.879,000 2014 M.879,000 2014 M.879,000 2014 M.879,000 2014 M.879,000 2015 M.879,000 2016 M.879,000 2016 M.879,000 2017 M.879,000 2018 M.879,000 2019 M.879,000 2017 M.879,000 2018 M.879,000 2019 M.87									0			, - ,
2015 M.877,000			8,250,797	8,713,827	19,700,0xi0	3,483,271	4,934,634	121,420		0	4,754,000	94,854,9
2006 M.877,000 2016 M.877,000 2016 M.877,000 2019 M.877,000 2014 M.877,000 2014 M.877,000 2014 M.877,000 2014 M.877,000 2014 M.877,000 2015 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2017 M.877,000 2018 M.877,000 2018 M.877,000 2019 M.877,000 2019 M.877,000 2011 M.877,000 2011 M.877,000 2011 M.877,000 2012 M.877,000 2013 M.877,000 2014 M.877,000 2017 M.877,000 2018 M.877,000 2018 M.877,000 2018 M.877,000 2017 M.877,000 2018 M.877,000	897,000	000 18	8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,9
2006 M.877,000 2016 M.877,000 2016 M.877,000 2019 M.877,000 2014 M.877,000 2014 M.877,000 2014 M.877,000 2014 M.877,000 2014 M.877,000 2015 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2016 M.877,000 2017 M.877,000 2018 M.877,000 2018 M.877,000 2019 M.877,000 2019 M.877,000 2011 M.877,000 2011 M.877,000 2011 M.877,000 2012 M.877,000 2013 M.877,000 2014 M.877,000 2017 M.877,000 2018 M.877,000 2018 M.877,000 2018 M.877,000 2017 M.877,000 2018 M.877,000	897,000	000 10	8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,9
2017 M,877,000 2029 M,879,000 2029 M,879,000 2040 M,879,000 2041 M,879,000 2042 M,879,000 2043 M,879,000 2044 M,879,000 2045 M,879,000 2046 M,879,000 2047 M,879,000 2048 M,879,000 2051 M,879,000 2052 M,879,000 2053 M,879,000 2054 M,879,000 2055 M,879,000 2056 M,879,000 2057 M,879,000 2058 M,879,000 2058 M,879,000 2059 M,879,000 2050 M,879,000 2051 M,879,000 2052 M,879,000 2053 M,879,000 2054 M,879,000 2055 M,879,000 2056 M,879,000 2057 M,879,000 2058 M,879,000 2059 M,879,000 2059 M,879,000 2059 M,879,000 2059 M,879,000 2050 M,879,000 2050 M,879,000 2051 M,879,000 2052 M,879,000 2053 M,879,000 2054 M,879,000 2055 M,879,000 2056 M,879,000 2057 M,879,000 2058 M,879,000 2058 M,879,000 2059 M,879,000 2059 M,879,000 2059 M,879,000 2059 M,879,000 2059 M,879,000 2059 M,879,000 2050 M,87			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,5
2036 M. 879,000 2039 M. 879,000 2039 M. 879,000 2041 M. 879,000 2041 M. 879,000 2043 M. 879,000 2044 M. 879,000 2045 M. 879,000 2046 M. 879,000 2046 M. 879,000 2046 M. 879,000 2048 M. 879,000 2050 M. 879,000 2051 M. 879,000 2052 M. 879,000 2053 M. 879,000 2053 M. 879,000 2054 M. 879,000 2055 M. 879,000 2056 M. 879,000 2056 M. 879,000 2056 M. 879,000 2057 M. 879,000 2058 M. 879,000 2058 M. 879,000 2059 M. 879,000 2050 M. 879,000 2051 M. 879,000 2052 M. 879,000 2053 M. 879,000 2054 M. 879,000 2054 M. 879,000 2055 M. 879,000 2056 M. 879,000 2057 M. 879,00			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,9
2009 M.			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420	0	0	4,754,000	94,854,9
2004 M.1871,000 2012 M.1871,000 2013 M.1871,000 2014 M.1871,000 2014 M.1871,000 2015 M.1871,000 2016 M.1871,000 2017 M.1871,000 2018 M.1871,000 2019 M.1871,000 2017 M.1871,000 2018 M.1871,000 2019									0	0		94,854,9
2041 34,879,000 2043 34,879,000 2044 34,879,000 2045 34,879,000 2046 34,879,000 2046 34,879,000 2047 34,879,000 2048 34,879,000 2051 34,879,000 2051 34,879,000 2051 34,879,000 2051 34,879,000 2051 34,879,000 2052 34,879,000 2053 34,879,000 2054 34,879,000 2054 34,879,000 2056 34,879,000 2057 34,879,000			8,250,797	8,713,827	19,700,000	3,483,271	4,934,634	121,420			4,754,000	
2042 M.877 JOY 0 2043 M.877 JOY 0 2045 M.877 JOY 0 2045 M.877 JOY 0 2046 M.877 JOY 0 2047 M.877 JOY 0 2048 M.877 JOY 0 2049 M.877 JOY 0 2050 M.877 JOY 0 2051 M.877 JOY 0 2053 M.877 JOY 0 2053 M.877 JOY 0 2054 M.877 JOY 0 2054 M.877 JOY 0 2055 M.877 JOY 0 2056 M.877 JOY 0 2057 M.877 JOY 0 2058 M.877 JOY 0 2058 M.877 JOY 0 2058 M.877 JOY 0 2059 M.877 JOY 0 2050 M.877 JOY 0 2050 M.877 JOY 0 2050 M.877 JOY 0 2051 M.877 JOY 0 2052 M.877 JOY 0 2053 M.877 JOY 0 2057			8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2013 M.897,000 2014 M.897,000 2014 M.897,000 2016 M.897,000 2018 M.897,000 2018 M.897,000 2019 M.897,000 2019 M.897,000 2015 M.897,000 2016 M.897,000 2016 M.897,000 2017 M.897,000 2016 M.897,000 2017 M.897,000 2018 M.897,000 2019 M.897,000	897,000	000 18	8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,
2013 34,877,000 2045 34,877,000 2046 34,877,000 2046 34,877,000 2047 34,877,000 2048 34,877,000 2048 34,877,000 2059 34,877,000 2051 34,877,000 2052 34,877,000 2053 34,877,000 2054 34,877,000 2055 34,877,000 2056 34,877,000 2056 34,877,000 2056 34,877,000 2056 34,877,000 2056 34,877,000 2056 34,877,000 2056 34,877,000 2057	397,000	00 11	8,250,797	8,713,827	19,700,010	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2044 M,897,000 2045 M,897,000 2047 M,897,000 2049 M,897,000 2049 M,897,000 2050 M,897,000 2051 M,897,000 2052 M,897,000 2053 M,897,000 2054 M,897,000 2055 M,897,000 2056 M,897,000 2057 M,897,000 2058 M,897,000 2059 M,897,000 2071 M,897,000 2072 M,897,000 2073 M,897,000 2074 M,897,000 2075 M,897,000 2076 M,897,000 2077 M,897,000 2077 M,897,000 2077 M,897,000 2078 M,897,000 2079 M,897,000 2070 M,897,000 2071 M,897,000 2071 M,897,000 2072 M,897,000 2073 M,897,000 2074 M,897,000 2075 M,897,000 2076 M,897,000 2077 M,897,000 2077 M,897,000 2078 M,897,000 2079 M,897,000 2079 M,897,000 2071 M,897,000 2079 M,897,000 2071 M,897,000 2071 M,897,000 2072 M,897,000 2073 M,897,000 2074 M,897,000 2075 M,897,000 2076 M,897,000 2077 M,897,000 2077 M,897,000 2078 M,897,000 2079 M,897,000 2070 M,897,000 2070 M,897,000 2071 M,897,000 2071 M,897,000 2072 M,897,000 2073 M,897,000 2074 M,897,000 2075 M,897,000 2076 M,897,000 2077 M,897,000 2077 M,897,000 2078 M,897,000 2079 M,897,000 2070 M,89	897.000	000 11	8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2045 M.877 (AD 2046 M.879 (AD 2048 M.879 (AD 2048 M.879 (AD 2049 M.879 (AD 2051 M.879 (AD 2052 M.879 (AD 2053 M.879 (AD 2053 M.879 (AD 2054 M.879 (AD 2055 M.879 (AD 2057 M.87			8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2016 34,877,000 2018 34,877,000 2019 34,877,000 2019 34,877,000 2019 34,877,000 2019 34,877,000 2011 34,877,000 2015 34,877,000 2015 34,877,000 2015 34,877,000 2015 34,877,000 2016 34,877,000 2016 34,877,000 2016 34,877,000 2016 34,877,000 2017 34,877,000 2018 34,877,000					19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2017			8,250,797	8,713,827					0	0		
2048 M_877_00.0 2049 M_877_00.0 2049 M_877_00.0 2051 M_877_00.0 2051 M_877_00.0 2053 M_877_00.0 2053 M_877_00.0 2054 M_877_00.0 2055 M_877_00.0 2056 M_877_00.0 2057 M_877_00.0 2058 M_877_00.0 2058 M_877_00.0 2058 M_877_00.0 2058 M_877_00.0 2059			8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420			4,754,000	94,609,4
2019 34,877,000 2051 34,877,000 2053 34,877,000 2053 34,877,000 2054 34,877,000 2055 34,877,000 2056 34,877,000 2056 34,877,000 2056 34,877,000 2050 34,877,000 2050 34,877,000 2051 34,877,000 2052 34,877,000 2054 34,877,000 2054 34,877,000 2055 34,877,000 2056 34,877,000 2057 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2078 34,877,000 2079 34,877,000 2079 34,877,000 2070 34,877,000 2071 34,877,000 2071 34,877,000 2072 34,877,000 2073 34,877,000 2074 34,877,000 2075 34,877,000 2076 34,877,000 2077 34,877,000 2078 34,877,000 2079 34,877,000 2071 34,877,000 2071 34,877,000 2072 34,877,000 2073 34,877,000 2074 34,877,000 2075 34,877,000 2076 34,877,000 2077 34,877,000 2077 34,877,000 2078	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,381,634	4,790,705	121,420	0	0	4,754,000	94,609,4
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250 M.877,000	297,000	000 11	8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2051 M.1897 (000			8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121.420	0	0	4,754,000	94,609,4
2653 M.8871,000 2054 M.879,000 2055 M.879,000 2055 M.879,000 2057 M.879,000 2059 M.879,000 2059 M.879,000 2050			8,250,797	8,713,827	19.700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2033 M.877,000 2035 M.877,000 2035 M.877,000 2036 M.877,000 2036 M.877,000 2038 M.877,000 2030 M.877,000 2030 M.877,000 2030 M.877,000 2030 M.877,000 2031 M.877,000 2032 M.877,000 2033 M.877,000 2034 M.877,000 2037 M.877,000				8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	o	4,754,000	94,609,4
2054 M. 1977 2002 2055 M. 1977 2002 M. 1977 2055 M. 1977 2056 M. 1977 2056 M. 1977 2057			8,250,797						0		4,754,000	94,609,4
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2057 M.877 JAD	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
2657 34,877,000 2658 34,877,000 2658 34,877,000 2654 34,877,000 2654 34,877,000 2654 34,877,000 2655 34,877,000 2656 34,877,000 2657 34,877,000 2657 34,877,000 2677 34,877,000 2677 34,877,000 2677 34,877,000 2677 34,877,000 2678	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,000	94,609,4
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2059 M.897,000 2060 M.897,000 2062 M.897,000 2062 M.897,000 2063 M.897,000 2063 M.897,000 2065 M.897,000 2066 M.897,000 2067 M.897,000 2067 M.897,000 2070 M.897,000 2071 M.897,000 2071 M.897,000 2071 M.897,000 2073 M.897,000 2073 M.897,000 2074 M.897,000 2075 M.897,000 2076 M.897,000 2078 M.897,000 2078 M.897,000 2078 M.897,000 2078 M.897,000 2079 M.897,000 2071 M.897,000 2079 M.897,000	par - 100		8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0	0	4,754,010	94,609,4
20x6 M,877,000 20x2 M,879,000 20x3 M,879,000 20x3 M,879,000 20x5 M,879,000 20x6 M,879,000 20x6 M,879,000 20x6 M,879,000 20x7 M,879,000 20x8 M,87										0	4,754,000	94,609,4
261 M.897,000 263 M.897,000 263 M.897,000 264 M.897,000 264 M.897,000 264 M.897,000 264 M.897,000 267 M.897,000 268 M.897,000			8,250,797	8,713,827	19,700,000	3,381,674	4,790,705	121,420	0			
20/2			8,250,797	8,713,827	19,700,000	3,164,645	4,483,247	121,420	0	0	4,754,000	94,084,9
2003 34,877,000 2005 34,877,000 2005 34,877,000 2006 34,877,000 2006 34,877,000 2007 34,877,000 2007 34,877,000 2071 34,877,000 2072 34,877,000 2073 34,877,000 2073 34,877,000 2074 34,877,000 2076 34,877,000 2076 34,877,000 2077 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000			8,250,797	8,713,827	19,700,000	3,161,187	4,478,348	121,420	0	0	4,754,000	94,076,5
2003 34,877,000 2005 34,877,000 2005 34,877,000 2006 34,877,000 2006 34,877,000 2007 34,877,000 2007 34,877,000 2071 34,877,000 2072 34,877,000 2073 34,877,000 2073 34,877,000 2074 34,877,000 2076 34,877,000 2076 34,877,000 2077 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2078 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000 2088 34,877,000	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,157,296	4,472,835	121,420	0	0	4,754,000	94,067,1
2064 94,877,000 2065 34,877,000 2067 34,877,000 2067 34,877,000 2069 34,877,000 2070 34,877,000 2071 34,877,000 2071 34,877,000 2072 34,877,000 2073 34,877,000 2076 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2077 34,877,000 2078 34,877,000 2078 34,877,000 2088			8,250,797	8,713,827	19,700,000	3,153,837	4,467,936	121,420	0	0	4,754,000	94,058,8
2005 34,877,000 2007 34,877,000 2007 34,877,000 2009 34,877,000 2071 34,877,000 2072 34,877,000 2073 34,877,000 2074 34,877,000 2075 34,877,000 2076 34,877,000 2076 34,877,000 2078 34,877,000 2078 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2079 34,877,000 2070 34,877,000 2071 34,877,000 2073 34,877,000 2074 34,877,000 2075			8,250,797	8,713,827	19,700,000	3,150,611	4,463,648	121,420	0	0	4,754,000	94,051,5
2026 M.897 000 2028 M.897 000 2028 M.897 000 2029 M.897 000 2029 M.897 000 2070 M.897 000 2071 M.897 000 2072 M.897 000 2073 M.897 000 2074 M.897 000 2075 M.897 000 2076 M.897 000 2076 M.897 000 2076 M.897 000 2078 M.897 000 2079 M.897 000									0	0	4,754,000	94,043,1
2027 M.897,000 2028 M.897,000 2070 M.897,000 2070 M.897,000 2071 M.897,000 2072 M.897,000 2073 M.897,000 2073 M.897,000 2074 M.897,000 2075 M.897,000 2076 M.897,000 2076 M.897,000 2078 M.897,000 2088 M.897,000 2083 M.897,000 2083 M.897,000			8,250,797	8,713,827	19,700,000	3,147,352	4,458,749	121,420				
2024 34,977,000 2070 34,979,000 2070 34,979,000 2071 34,979,000 2072 34,979,000 2073 34,979,000 2075 34,979,000 2076 34,979,000 2076 34,979,000 2077 34,979,000 2079 34,979,000 2079 34,979,000 2079 34,979,000 2079 34,979,000 2079 34,979,000 2079 34,979,000 2079 34,979,000 2081 34,979,000 2083 34,979,000 2083 34,979,000	,897,000		8,250,797	8,713,827	19,700,000	3,144,326	4,454,461	121,420	0	0	4,754,000	94,035,8
2029 M.1971,000 2070 M.8971,000 2071 M.8971,000 2072 M.8971,000 2073 M.8971,000 2073 M.8971,000 2074 M.8971,000 2075 M.8971,000 2077 M.8971,000 2077 M.8971,000 2078 M.8971,000 2078 M.8971,000 2080 M.8971,000 2081 M.8971,000 2083 M.8971,000 2084 M.8971,000 2085	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,141,299	4,450,174	121,420	0	0	4,754,000	94,028,5
2029 M.1971,000 2070 M.8971,000 2071 M.8971,000 2072 M.8971,000 2073 M.8971,000 2073 M.8971,000 2074 M.8971,000 2075 M.8971,000 2077 M.8971,000 2077 M.8971,000 2078 M.8971,000 2078 M.8971,000 2080 M.8971,000 2081 M.8971,000 2083 M.8971,000 2084 M.8971,000 2085	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,137,841	4,445,274	121,420	0	0	4,754,000	94,020,1
2070 34,897,000 2071 34,897,000 2073 34,897,000 2073 34,897,000 2074 34,897,000 2076 34,897,000 2076 34,897,000 2076 34,897,000 2076 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,134,814	4,440,987	121,420	0	0	4,754,000	94,012,8
2071 34,897,000 2072 34,897,000 2073 34,897,000 2074 34,897,000 2075 34,897,000 2076 34,897,000 2076 34,897,000 2079 34,897,000 2080 34,897,000 2081 34,897,000 2081 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,131,788	4,436,700	121,420	0	0	4,754,000	94,005,5
2072 34,897,000 2073 34,897,000 2075 34,897,000 2076 34,897,000 2076 34,897,000 2079 34,897,000 2090 34,897,000 2010 34,897,000 2010 34,897,000 2010 34,897,000 2010 34,897,000 2010 34,897,000 2010 34,897,000									_			93,997,1
2073 34,897,000 3074 34,897,000 2075 34,897,000 2076 34,897,000 2076 34,897,000 2079 34,897,000 2080 34,897,000 2081 34,897,000 2082 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,128,330	4,431,800	121,420	0	0	4,754,000	
2074 34,897,000 2075 34,897,000 2076 34,897,000 2076 34,897,000 2079 34,897,000 2079 34,897,000 2081 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,125,303	4,427,513	121,420	0	0	4,754,010	93,989,8
2074 34,897,000 2075 34,897,000 2076 34,897,000 2076 34,897,000 2079 34,897,000 2079 34,897,000 2081 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,121,845	4,422,613	121,420	0	0	4,754,000	93,981,5
2075 34,897,000 2076 34,897,000 2077 34,897,000 2078 34,897,000 2079 34,897,000 2080 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,118,818	4,418,326	121,420	0	0	4,754,000	93,974,1
2076 34,897,000 2077 34,897,000 2078 34,897,000 2079 34,897,000 2080 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000							4,414,039	121,420	0	0	4,754,000	93,966,8
2077 34,897,000 2078 34,897,000 2079 34,897,000 2080 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,115,797						
2078 34,897,000 2079 34,897,000 2080 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,112,333	4,409,139	121,420	0	0	4,754,000	93,958,5
2079 34,897,000 2090 34,897,000 2081 34,897,000 2082 34,897,000 2082 34,897,000	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,108,010	4,403,014	121,420	0	0	4,754,000	92,948,0
2079 34,897,000 2090 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000	,897,000		8,250,797	8,713,827	19,700,000	3,104,984	4,398,727	121,420	0	0	4,754,000	93,940,7
2080 34,897,000 2081 34,897,000 2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,101,957	4,394,440	121.420	0	0	4,754,000	93,933,4
2081 34,897,000 2082 34,897,000 2083 34,897,000									0	0	4,754,000	93,860,3
2082 34,897,000 2083 34,897,000			8,250,797	8,713,827	19,700,000	3,071,694	4,351,567	121,420				, ,
2083 34,897,000	,897,000	0000	8,250,797	8,713,827	19,700,000	3,068,236	4,346,667	121,420	0	0	4,754,000	93,851,9
2083 34,897,000	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,065,210	4,342,380	121,420	0	0	4,754,000	93,844,6
			8,250,797	8,713,827	19,700,000	3,062,183	4,338,093	121,420	0	0	4,754,000	93,837,3
			8,250,797	8,713,827	19,700,000	3,058,725	4,333,193	121,420	0	0	4,754,000	93,828,9
						3,055,648	4,328,996	121,420	0	0		
20R5 34,897,000			8,250,797	8,713,827	19,700,000						4,754,000	93,821,6
2086 34,897,000			8,250,797	8,713,827	19,700,000	3,052,240	4,324,006	121,420	0	0	4,754,000	93,813,2
2087 34,897,000	,897,000	000 1	8,250,797	8,713,827	19,700,000	3,049,213	4,319,719	121,420	0	0	4,754,000	93,805,9
2068 34,897,000			8,250,797	8,713,827	19,700,000	3,046,187	4,915,432	121,420	0	0	4,754,000	93,798,6
2089 34,897,000			8,250,797	8,713,827	19,700,000	3,042,728	4,510,532	121,420	0	0	4,754,000	93,790,3
2090 34,897,000			8,250,797	8,713,827	19,700,000	3,039,702	4,306,245	121,420	0	0	4,754,000	93,782,9
24 JA (277/JUL)	897.000		material (T)	W/ 1 8-3/86 7	67,700,000	Japan Pr. 1944	4,200,200	226,720			4,154,000	- 02 10T/A



APPENDIX G (FEDERAL REGISTER NOTICE)

March 1991

G (FEOERAL REGISTER NOTICE)

DEPARTMENT OF ENERGY

Western Area Power Administration

Proposed Power Rate Adjustment - Pick-Sloan Missouri Basin Program

AGENCY: Western Area Power Administration, DOE.

ACTION: Notice of Proposed Power Rate Adjustment - Pick-Sloan

Missouri Basin Program.

SUMMARY: The fiscal year (FY) 1990 power repayment study (PRS) for the Pick-Sloan Missouri Basin Program (P-SMBP) shows that existing power rates are not adequate to meet repayment requirements. To meet those requirements the composite rate for firm power is proposed to be increased in FY 1992 by 1.39 mills/kilowatthour (kWh). A FY 1991 PRS which incorporates certain assumed values has also been completed and indicates the need for an additional increase in the composite rate of 0.91 mills/kWh in FY 1993. The Western Area Power Administration (Western) is proposing to seek approval of a two-step rate adjustment. The first step will be based on the FY 1990 PRS and the second step will be based on a FY 1991 PRS.

The Eastern Division (ED) and Western Division (WD) of the P-SMBP will each adjust their respective revenues to meet the required increases. The rate to provide revenue for the combined P-SMBP-WD and Fryingpan-Arkansas Project (Fry-Ark) is designated as the Loveland Area Projects (LAP) rate. The LAP rate will include the P-SMBP-WD revenue requirement combined with the revenue requirement for the Fry-Ark, and a blended rate will be designed.



The proposed rate increase reflects: (1) changes of the future projections of operation and maintenance expenses, (2) increased deficits, and (3) the inclusion of purchased power expenses and reduced surplus sales revenues for 5 future years to reflect continuing drought conditions.

Eastern Division

The Eastern Division proposed rate adjustment would, over 2 years, increase the overall capacity charge for firm power service by \$0.49/kilowatt-month (kW-month) and increase the overall energy charge by 1.52 mills/kWh. There is no change proposed to the existing 3.38 mills/kWh additional charge for firm energy in excess of 60 percent monthly load factor because the regional cost of energy has remained relatively stable over the past several years, and is expected to increase only slightly in the near future. Over 2 years, the proposed rate adjustment would also increase the peaking capacity charge by \$2.94/kW-season and any energy associated with peaking power deliveries by 1.52 mills/kWh. The table below summarizes the proposed changes in rates.

P-SMBP-ED

(Rate Changes)

Class of Power	Existing Rate	Proposed Rate
	(FY 1991)	(FY 1992) (FY 1993)

Firm Power Service:

Firm capacity (kW) \$ 2.25/kW-month \$ 2.57/kW-month \$ 2.74/kW-month Firm energy (kWh) 5.57 mills/kWh 6.49 mills/kWh 7.09 mills/kWh Composite mills/kWh 9.86 11.25 12.16

Additional charge for firm energy in excess of 60-percent monthly load factor 3.38 mills/kWh 3.38 mills/kWh 3.38 mills/kWh

Firm Peaking

Power Service:

Peaking \$13.50/kW-season \$15.42/kW-season \$16.44/kW-season Capacity (kW)
Peaking energy (kWh) 5.57 mills/kWh 6.49 mills/kWh 7.09 mills/kWh

Western Division

A separate rate adjustment to the LAP rate will be processed by Western's Loveland Area Office which will include the revenue requirements for the Western Division shown below:

P-SMBP WESTERN DIVISION	(FY 1992)	(FY 1993)
Existing Revenue Requirement Additional Revenue Requirement New P-SMBP-Western Division	\$23,271,480 \$2,830,040	\$26,101,520 \$1,852,760
Revenue Requirement	\$26,101,520	\$27,954,280
FRYINGPAN-ARKANSAS PROJECT		
Fryingpan-Arkansas Revenue		
Requirements	\$13,933,200	\$13,933,200
Total LAP Revenue Requirements	\$40,034,720	\$41,887,480



FURTHER INFORMATION: A brochure explaining the need for a rate increase will be distributed to all P-SMBP customers and other interested parties shortly after publication of this notice. Public information and public comment forums will be held in accordance with procedures for public participation in general rate adjustments (10 CFR 903). Following completion of the consultation and comment period and review of public comments, Western will develop the proposed rates and submit them to the Deputy Secretary of Energy to be placed in effect on an interim basis pending final approval by the Federal Energy Regulatory Commission (FERC). It is anticipated that the first step of the rates will be placed in effect on the first day of the first full billing period beginning on or after October 1, 1991, and the second on the first day of the first full billing period beginning on or after October 1, 1992.

Data, studies, reports, and other documents used in developing the proposed rates are available for inspection and/or copying in Western's Billings Area Office. Written comments and requests for information may also be submitted to the following address throughout the entire consultation and comment period:

Mr. James D. Davies
Area Manager
Billings Area Office
Western Area Power Administration
P.O. Box 35800
Billings, MT 59107-5800
Telephone: (406) 657-6532

DATES: The consultation and comment period will begin with the publication of this notice in the FEDERAL REGISTER and will end not less than 90 days later or on June 1, 1991, whichever is the later.



Public information forums, during which Western will explain the need for the proposed rate increase and answer questions, will be held at the following places and times:

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March 25, 1991 - 9:00 a.m. - Sheraton Hotel, Billings, MT
March 25, 1991 - 2:00 p.m. - Holiday Inn, Northglenn, CO
March 26, 1991 - 8:00 a.m. - Holiday Inn Airport, Sioux Falls, SD
March 26, 1991 - 1:30 p.m. - Holiday Inn, Fargo, ND
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Public comment forums, during which comments for the record concerning the proposed rate increase will be accepted, will be conducted at the following places and times:

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April 16, 1991 - 9:00 a.m. - Holiday Inn, Northglenn, CO
April 17, 1991 - 2:00 p.m. - Ramkota Inn Airport, Sioux Falls, SD
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Individuals planning to speak at either the March or April forums are requested to send their names and organization affiliation to the Billings Area Office address noted above 1 week before each meeting so a speaker list can be prepared. Other individuals will be allowed to comment after the individuals requesting time have spoken.

SUPPLEMENTARY INFORMATION: Power rates for the P-SMBP are established pursuant to the Department of Energy (DOE) Organization Act,

42 U.S.C. 7101, et seq.; the Reclamation Act, 43 U.S.C. 372, et seq.,

as amended and supplemented by subsequent enactments, particularly section 9(c) of the Reclamation Project Act of 1939, 43 U.S.C.

485h(c); section 9 of the Flood Control Act of 1944, 58 Stat. 887; and other acts specifically applicable to the project system involved.



By Delegation Order No. 0204-108, effective December 14, 1983

(48 FR 55664), as amended May 30, 1986 (51 FR 19744), reassigned by

DOE Notice 1110.29 dated October 27, 1988, and clarified by Secretary

of Energy Notice SEN-10-89 dated August 3, 1989, and subsequent

revisions, the Secretary of Energy delegated: (1) the authority, on a

nonexclusive basis, to develop long-term power and transmission rates

to the Administrator of Western; (2) the authority to confirm,

approve, and place such rates in effect on an interim basis to the

Deputy Secretary of DOE; (3) and the authority to confirm, approve,

and place in effect on a final basis, to remand, or to disapprove such

rates to the FERC. Existing DOE procedures for public participation

in power rate adjustments (10 CFR Part 903) became effective on

September 18, 1985 (50 CFR 37835). Power rate adjustments for the

P-SMBP firm power rate are conducted consistent with

10 CFR Part 903.

Environmental Compliance

In compliance with the National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. 4321, et seq., Council on Environmental Quality Regulations (40 CFR Parts 1500-1508), and DOE guidelines published in the FEDERAL REGISTER on December 15, 1987 (52 FR 47662), Western will evaluate the proposed rate adjustment and prepare the appropriate documentation of NEPA compliance.

Regulatory Flexibility Analysis

Pursuant to the Regulatory Flexibility Act of 1980, 5 U.S.C. 601, et seq., to publish a proposed rule, Western is required to prepare



and make available for public comment an initial regulatory flexibility analysis to describe the impact of the proposed rule on small entities. In this instance, the rate adjustment for P-SMBP relates to nonregulatory services provided by Western at a particular rate.

Under 5 U.S.C. 601(2), rates or services of particular applicability are not considered rules within the meaning of the Act. Since the rate for P-SMBP power is of limited applicability and is being set in accordance with specific regulations and legislation under particular circumstances, Western believes that no flexibility analysis is required.

Paperwork Reduction Act of 1980

The Paperwork Reduction Act of 1980, 44 U.S.C. 3501-3520, requires that certain information collection requirements be approved by the Office of Management and Budget (OMB) before information is demanded of the public. OMB has issued a final rule on the Paperwork Burdens on the Public (48 FR 13666) dated March 31, 1983. Ample opportunity is provided pursuant to this FEDERAL REGISTER notice for the interested public to participate in the development of the P-SMBP rate. There is no requirement that members of the public participating in the development of the P-SMBP rate supply information about themselves to the Government. It follows that the P-SMBP rates are exempt from the Paperwork Reduction Act.



Determination Under Executive Order 12291

The DOE has determined that this is not a major rule because it does not meet the criteria of section 1(b) of Executive Order 12291, 46 FR 13193 (February 19, 1981). Western has an exemption from sections 3, 4, and 7 of Executive Order 12291.

Issued at Golden, Colorado, March 1, 1991

William H. Clagett

Administrator





